FIG.1

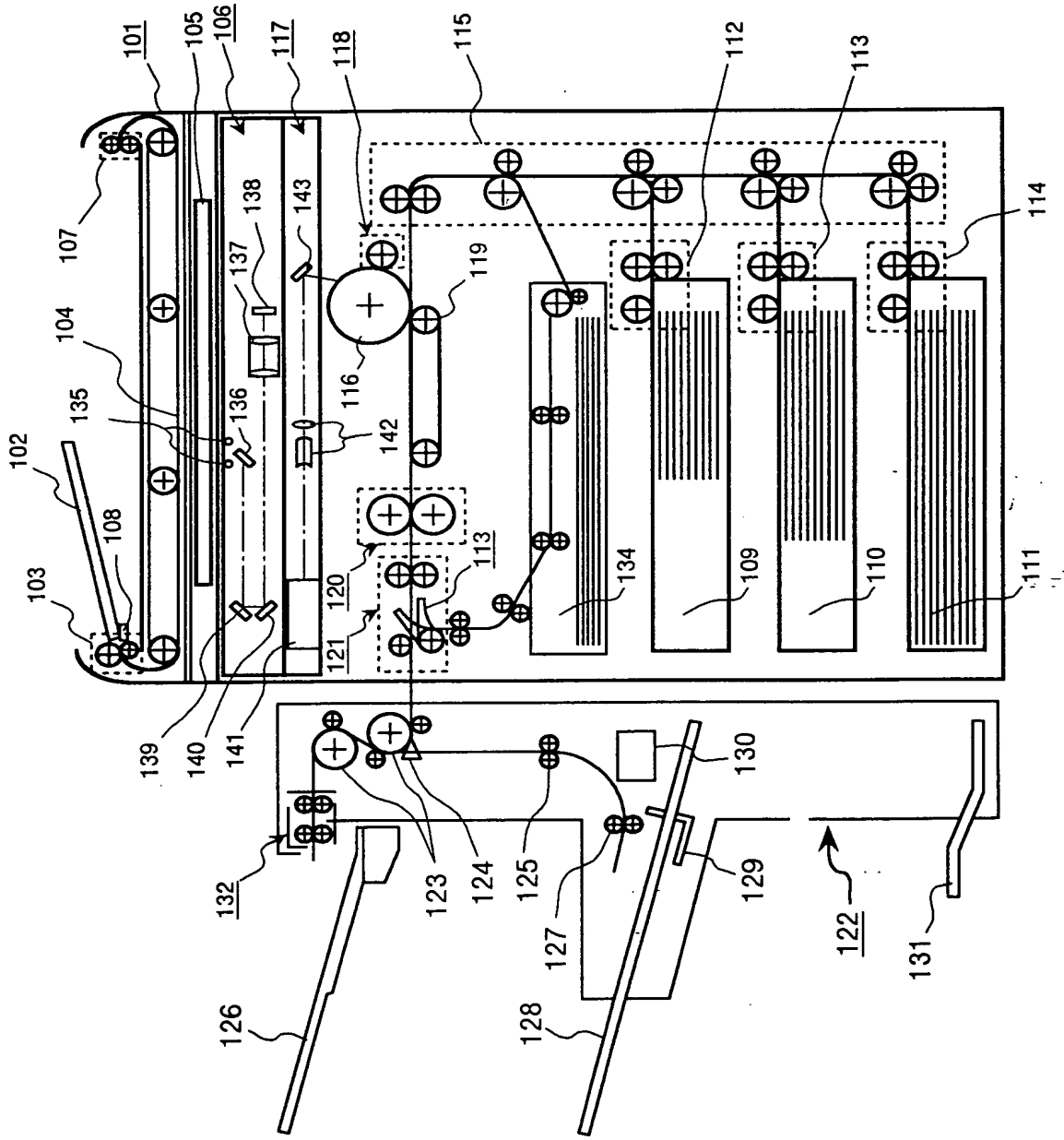
101
105
106
117
118
115
112
113
114
107
104
135
102
108
103
136
137
138
143
116
119
142
120
121
113
134
109
110
111
139
140
141
130
132
123
124
125
129
122
131
127
126
128

FIG.2

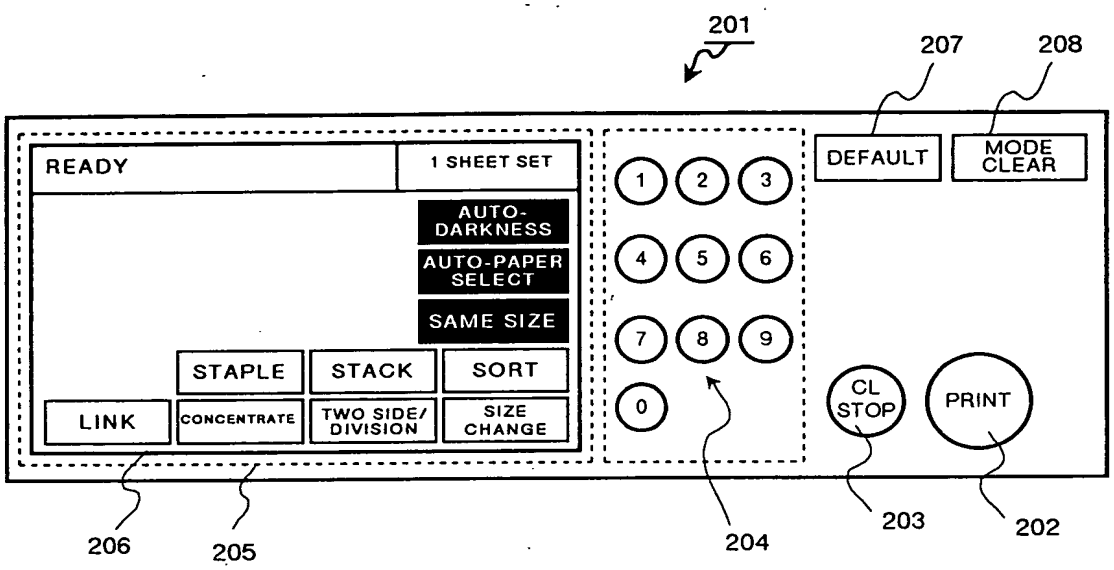
201
207
208
READY
1 SHEET SET
AUTO-DARKNESS
AUTO-PAPER SELECT
SAME SIZE
STAPLE
STACK
SORT
LINK
CONCENTRATE
TWO SIDE/ DIVISION
SIZE CHANGE
1
2
3
4
5
6
7
8
9
0
DEFAULT
MODE CLEAR
CL STOP
PRINT
206
205
204
203
202

FIG.3

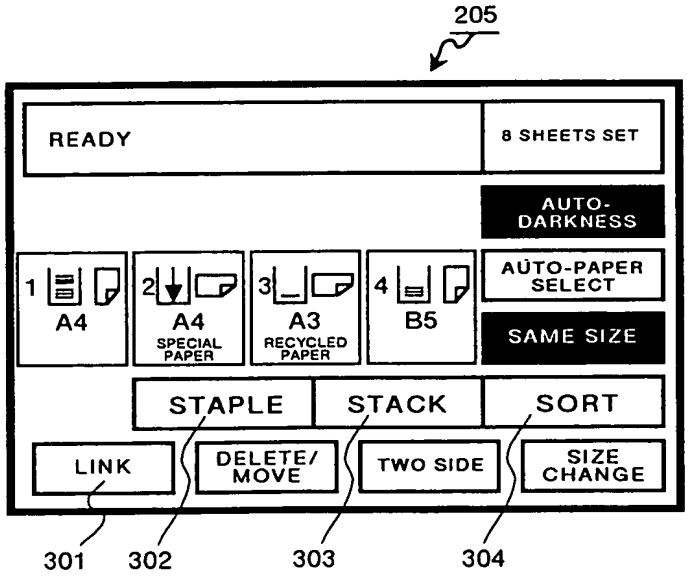
205
READY
8 SHEETS SET
AUTO-DARKNESS
1
A4
2
A4
SPECIAL PAPER
3
A3
RECYCLED PAPER
4
B5
AUTO-PAPER SELECT
SAME SIZE
STAPLE
STACK
SORT
LINK
DELETE/ MOVE
TWO SIDE
SIZE CHANGE
301
302
303
304

FIG.4

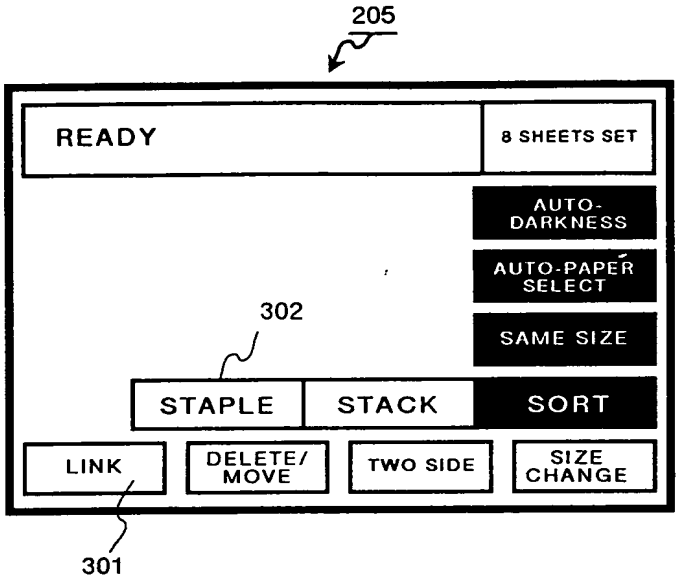
205
READY
8 SHEETS SET
AUTO-DARKNESS
AUTO-PAPER SELECT
SAME SIZE
302
STAPLE
STACK
SORT
LINK
DELETE/ MOVE
TWO SIDE
SIZE CHANGE
301

FIG.5

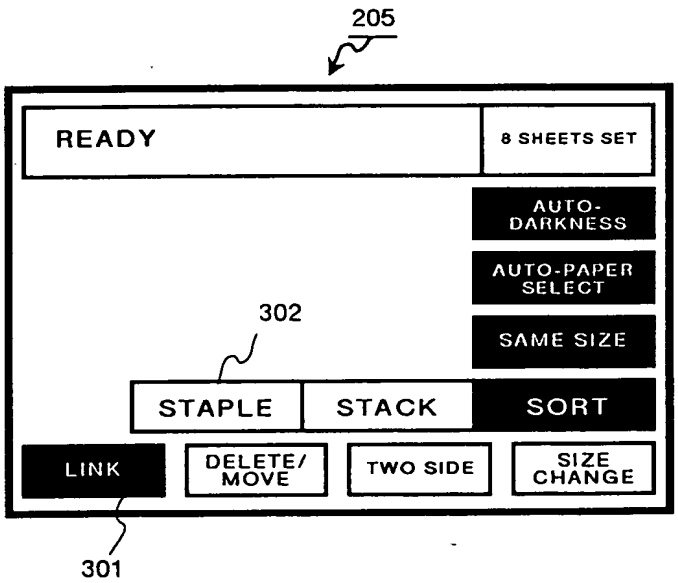
205
READY
8 SHEETS SET
AUTO-DARKNESS
AUTO-PAPER SELECT
SAME SIZE
302
STAPLE
STACK
SORT
LINK
DELETE/ MOVE
TWO SIDE
SIZE CHANGE
301

FIG.6

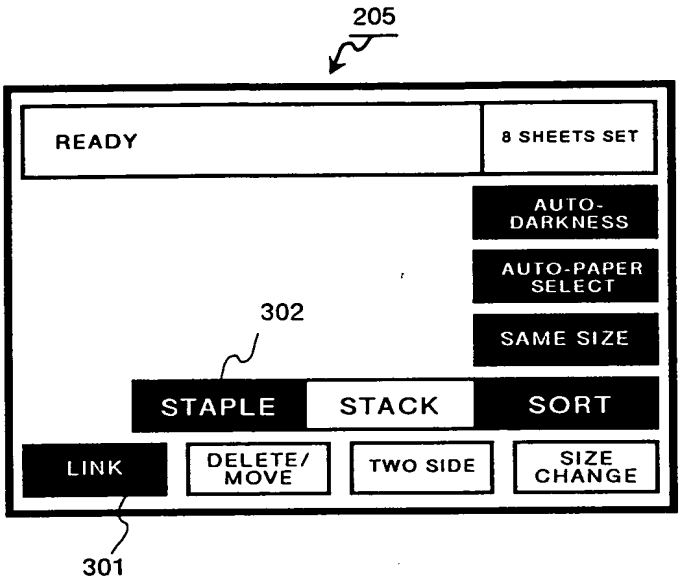
205
READY
8 SHEETS SET
AUTO-DARKNESS
AUTO-PAPER SELECT
SAME SIZE
302
STAPLE
STACK
SORT
LINK
DELETE/ MOVE
TWO SIDE
SIZE CHANGE
301

FIG.7

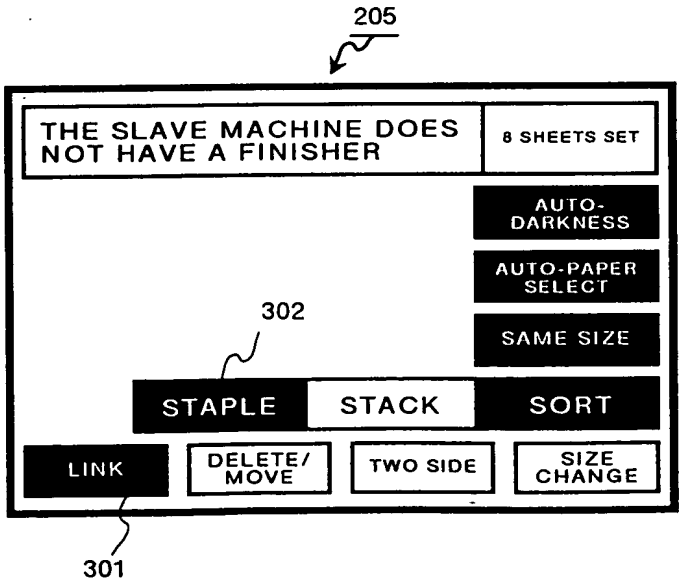
205
THE SLAVE MACHINE DOES NOT HAVE A FINISHER
8 SHEETS SET
AUTO-DARKNESS
AUTO-PAPER SELECT
SAME SIZE
302
STAPLE
STACK
SORT
LINK
DELETE/ MOVE
TWO SIDE
SIZE CHANGE
301

FIG.8

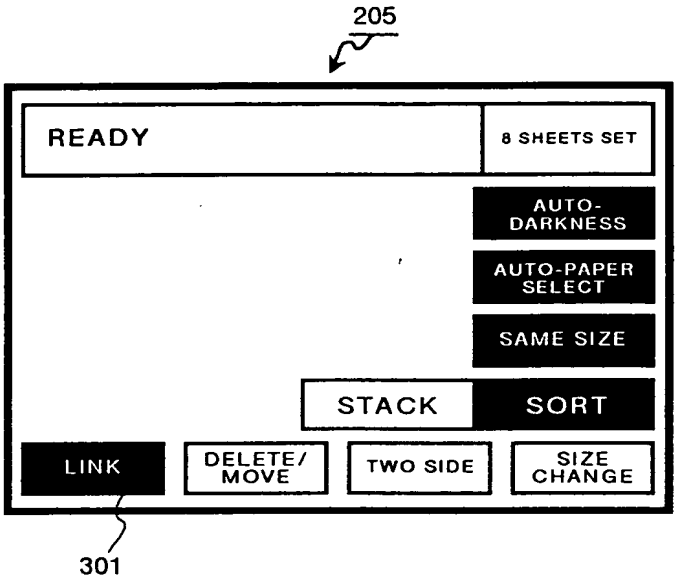
205
READY
8 SHEETS SET
AUTO-DARKNESS
AUTO-PAPER SELECT
SAME SIZE
STACK
SORT
LINK
DELETE/ MOVE
TWO SIDE
SIZE CHANGE
301

FIG.9

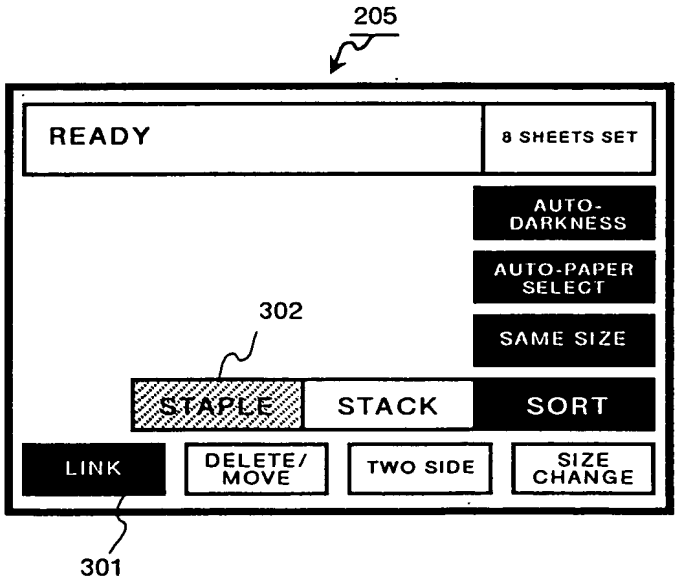
205
READY
8 SHEETS SET
AUTO-DARKNESS
AUTO-PAPER SELECT
SAME SIZE
302
STAPLE
STACK
SORT
LINK
DELETE/ MOVE
TWO SIDE
SIZE CHANGE
301

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FIG.10

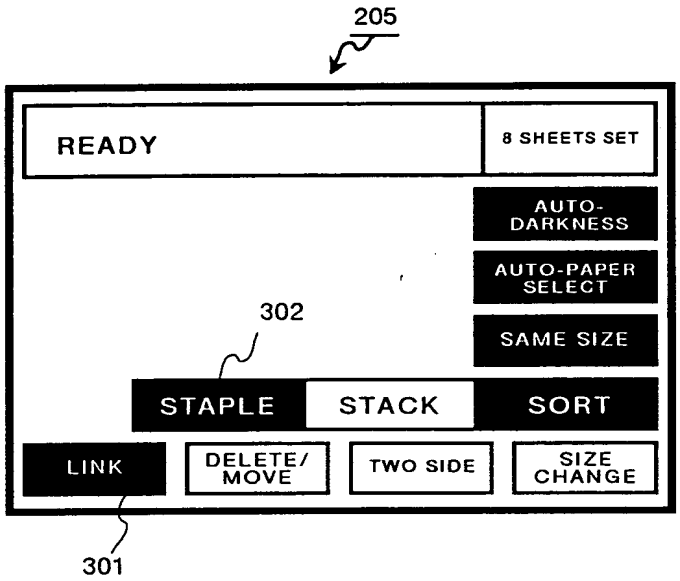

FIG.11

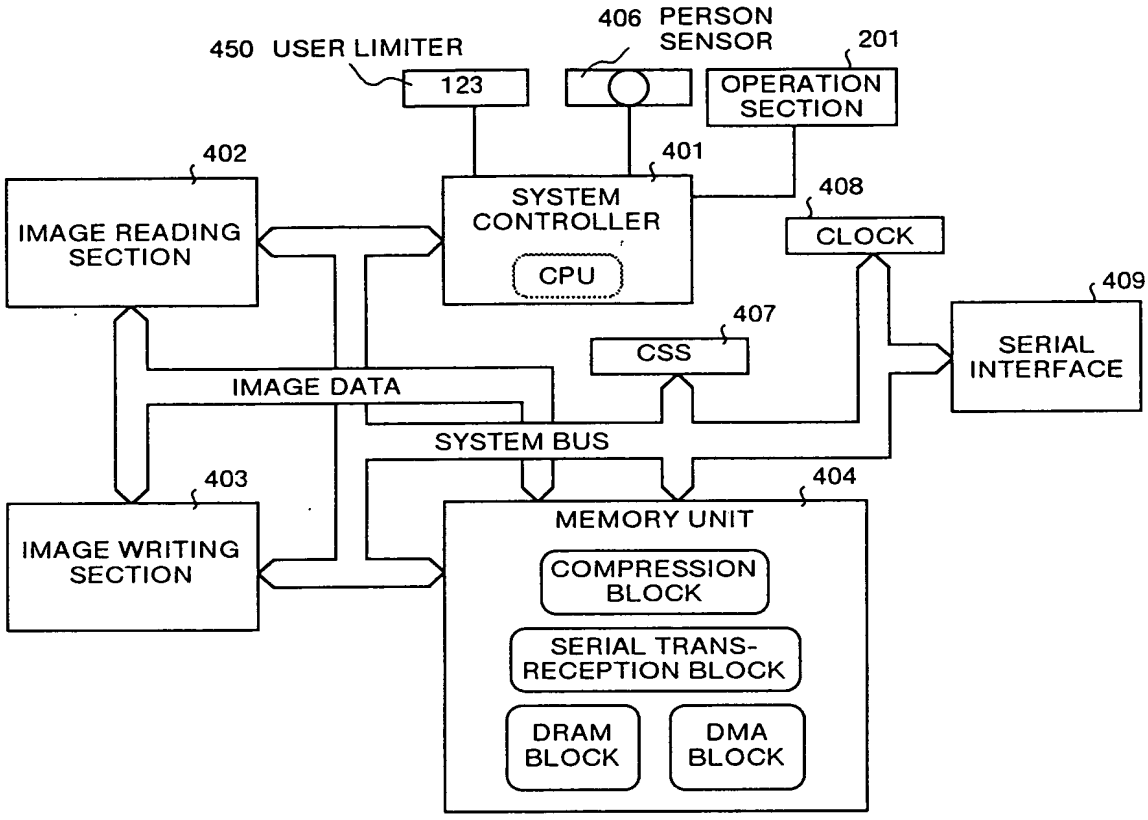
450 USER LIMITER
123
406 PERSON SENSOR
201
OPERATION SECTION
402
IMAGE READING SECTION
401
SYSTEM CONTROLLER
CPU
408
CLOCK
409
SERIAL INTERFACE
407
CSS
IMAGE DATA
SYSTEM BUS
403
IMAGE WRITING SECTION
404
MEMORY UNIT
COMPRESSION BLOCK
SERIAL TRANS-RECEPTION BLOCK
DRAM BLOCK
DMA BLOCK

FIG.12

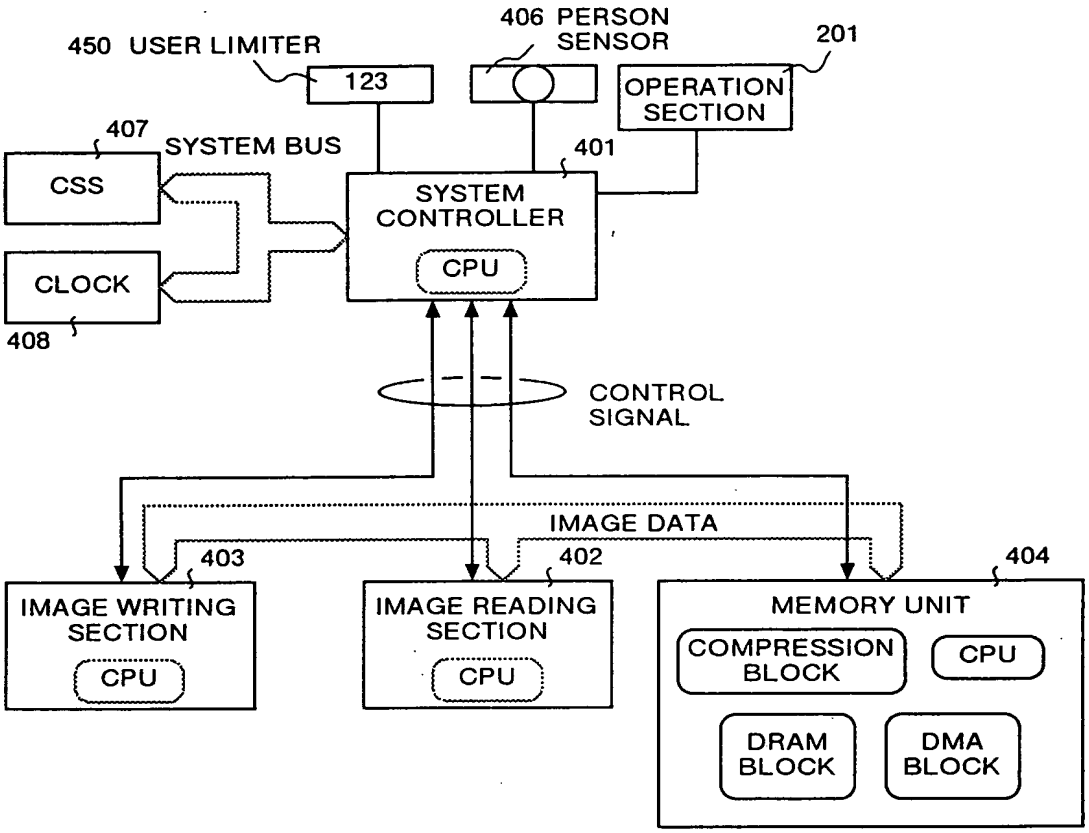
450 USER LIMITER
123
406 PERSON SENSOR
201
OPERATION SECTION
407
SYSTEM BUS
401
CSS
SYSTEM CONTROLLER
CPU
CLOCK
408
CONTROL SIGNAL
IMAGE DATA
403
402
404
IMAGE WRITING SECTION
CPU
IMAGE READING SECTION
CPU
MEMORY UNIT
COMPRESSION BLOCK
CPU
DRAM BLOCK
DMA BLOCK

FIG.13

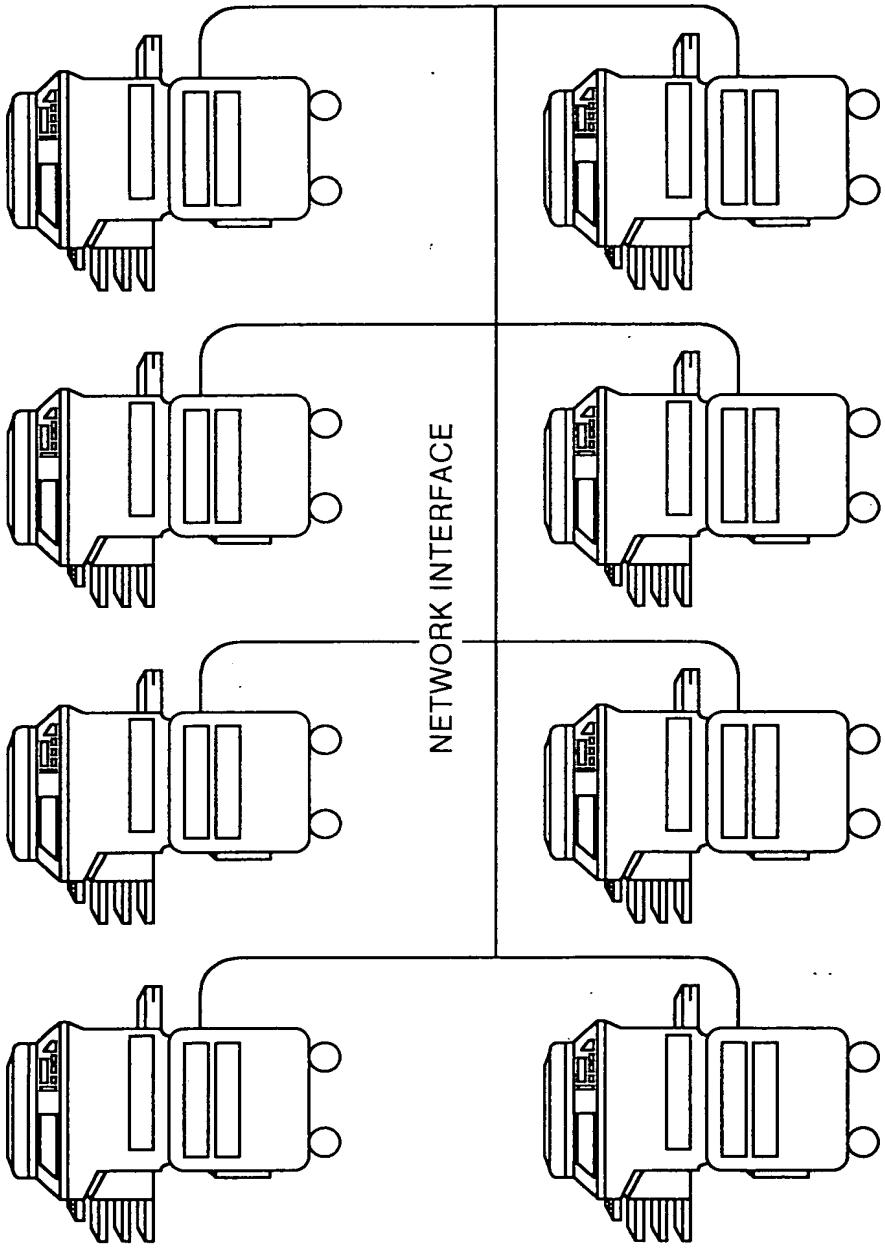

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FIG.14

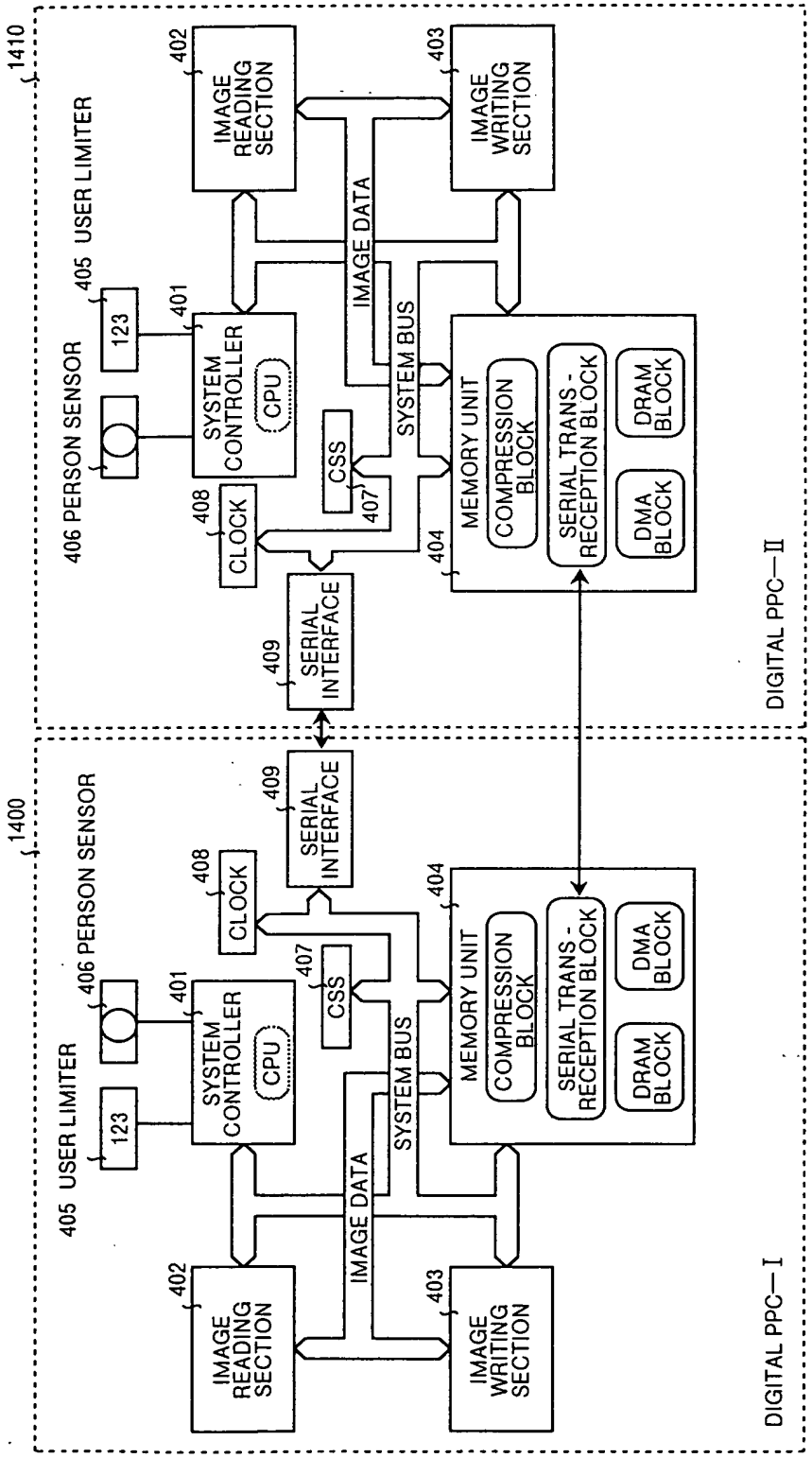

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FIG.15

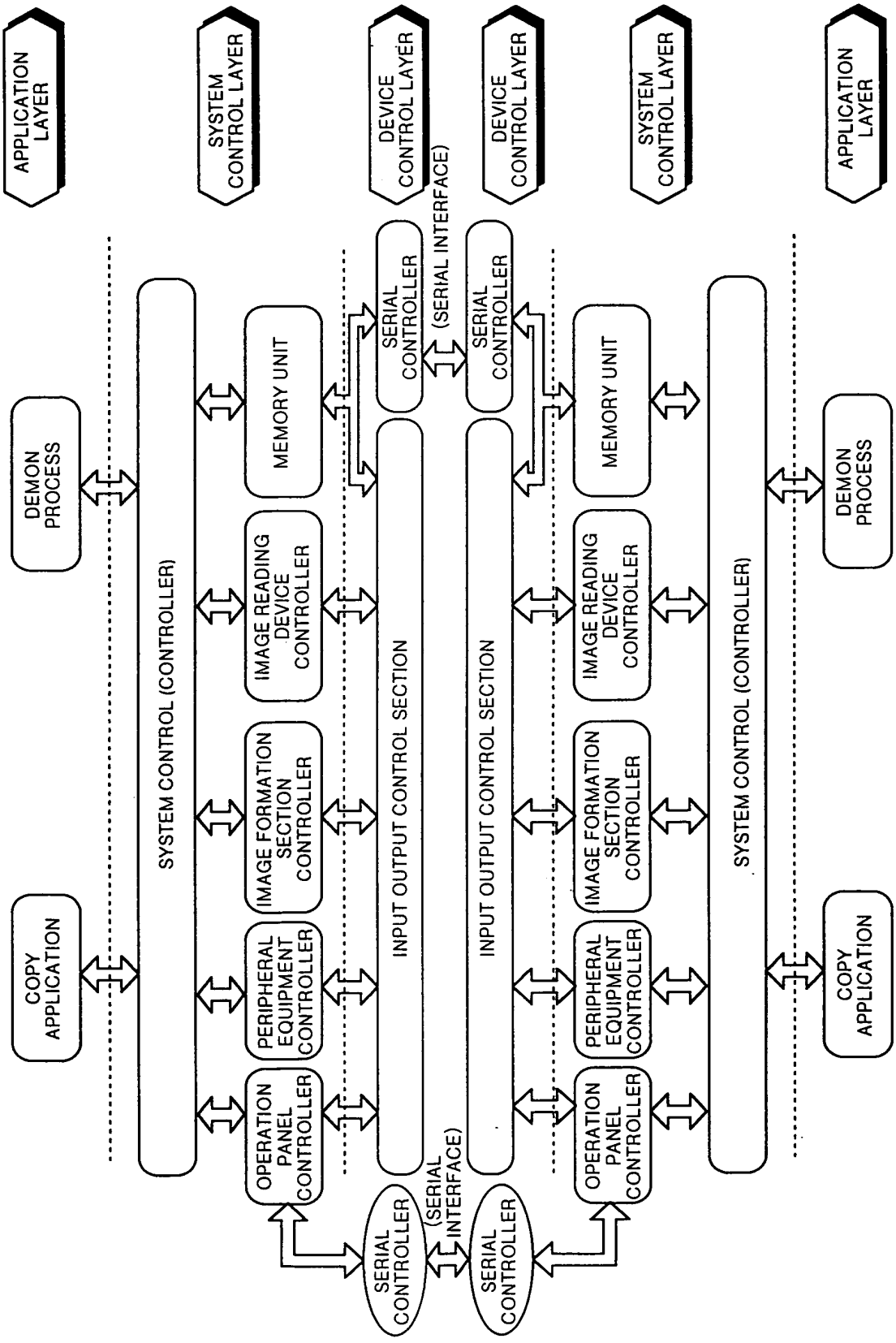

FIG.16

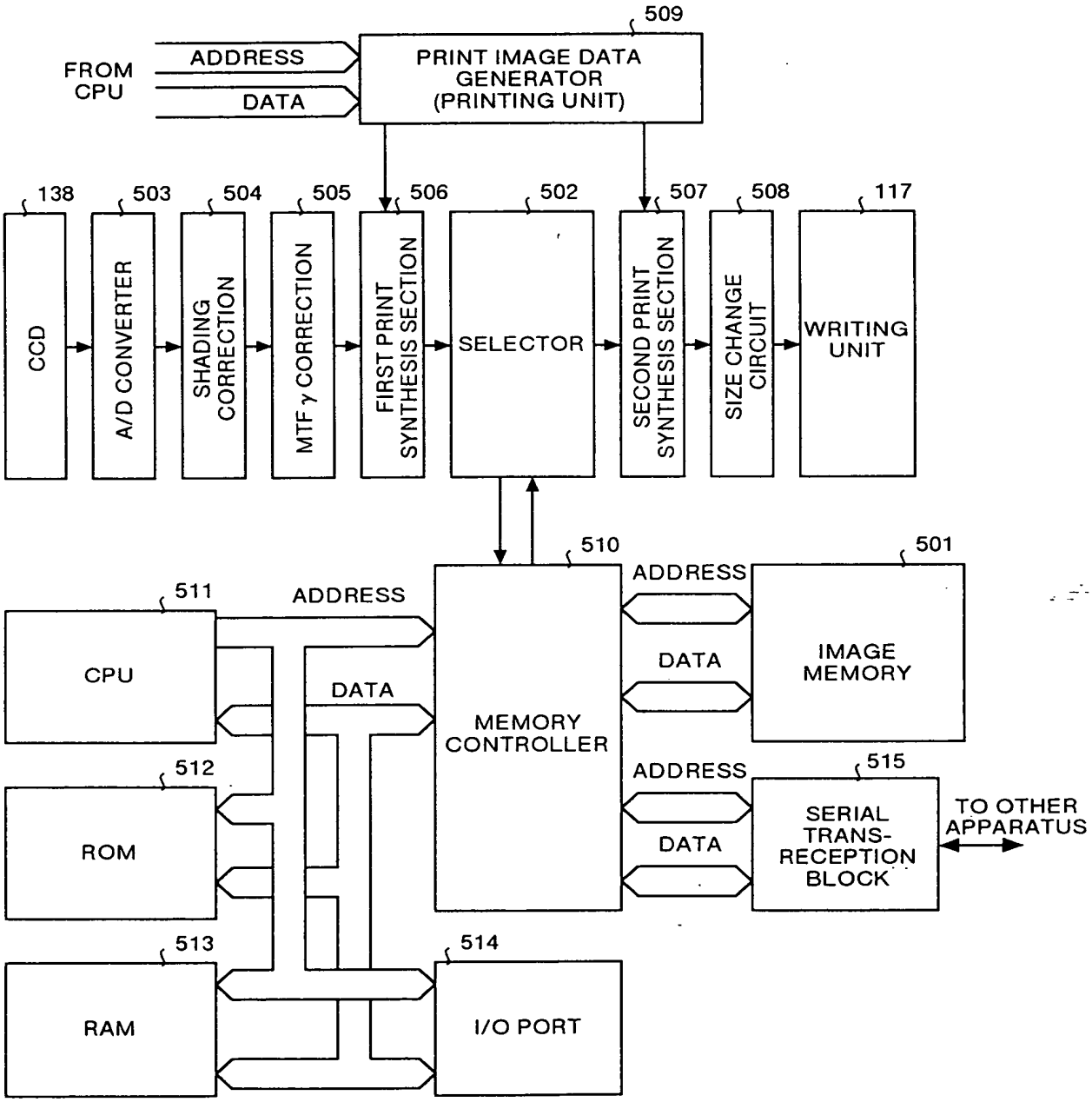
509
FROM CPU
ADDRESS
DATA
PRINT IMAGE DATA GENERATOR (PRINTING UNIT)
138
503
504
505
506
502
507
508
117
CCD
A/D CONVERTER
SHADING CORRECTION
MTF γ CORRECTION
FIRST PRINT SYNTHESIS SECTION
SELECTOR
SECOND PRINT SYNTHESIS SECTION
SIZE CHANGE CIRCUIT
WRITING UNIT
510
501
511
ADDRESS
ADDRESS
CPU
DATA
DATA
IMAGE MEMORY
MEMORY CONTROLLER
512
ADDRESS
515
ROM
SERIAL TRANS-RECEPTION BLOCK
TO OTHER APPARATUS
DATA
513
514
RAM
I/O PORT

FIG.17

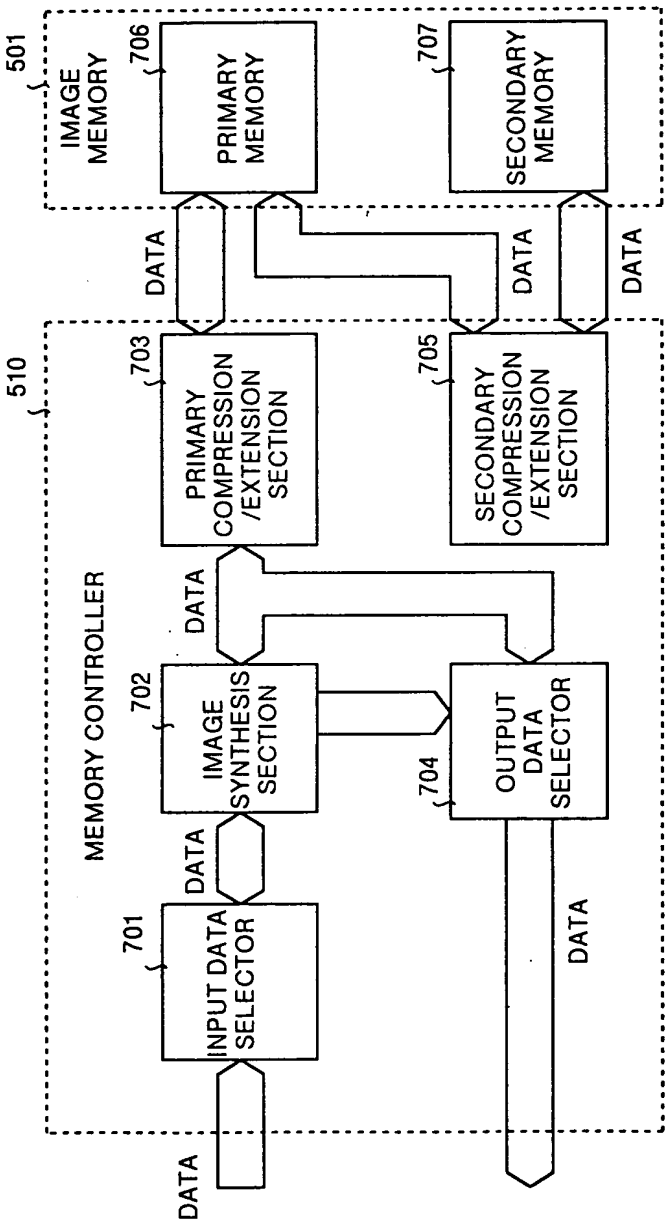
501
IMAGE MEMORY
706
PRIMARY MEMORY
707
SECONDARY MEMORY
DATA
DATA
DATA
510
MEMORY CONTROLLER
703
PRIMARY COMPRESSION /EXTENSION SECTION
705
SECONDARY COMPRESSION /EXTENSION SECTION
DATA
702
IMAGE SYNTHESIS SECTION
704
OUTPUT DATA SELECTOR
DATA
701
INPUT DATA SELECTOR
DATA
DATA

FIG.18

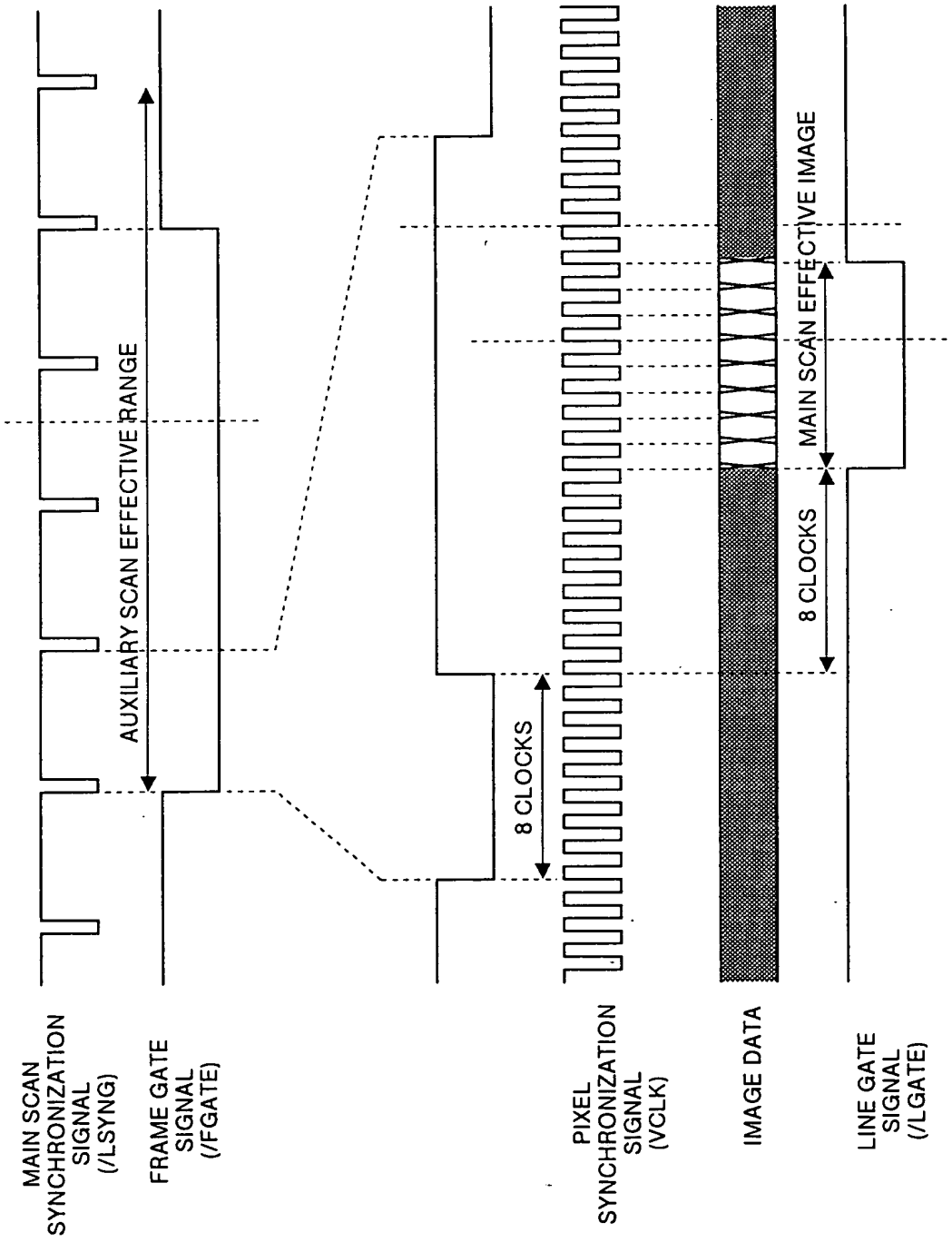
MAIN SCAN SYNCHRONIZATION SIGNAL (/LSYNG)
FRAME GATE SIGNAL (/FGATE)
AUXILIARY SCAN EFFECTIVE RANGE
8 CLOCKS
PIXEL SYNCHRONIZATION SIGNAL (VCLK)
IMAGE DATA
8 CLOCKS
MAIN SCAN EFFECTIVE IMAGE
LINE GATE SIGNAL (/LGATE)

FIG.19

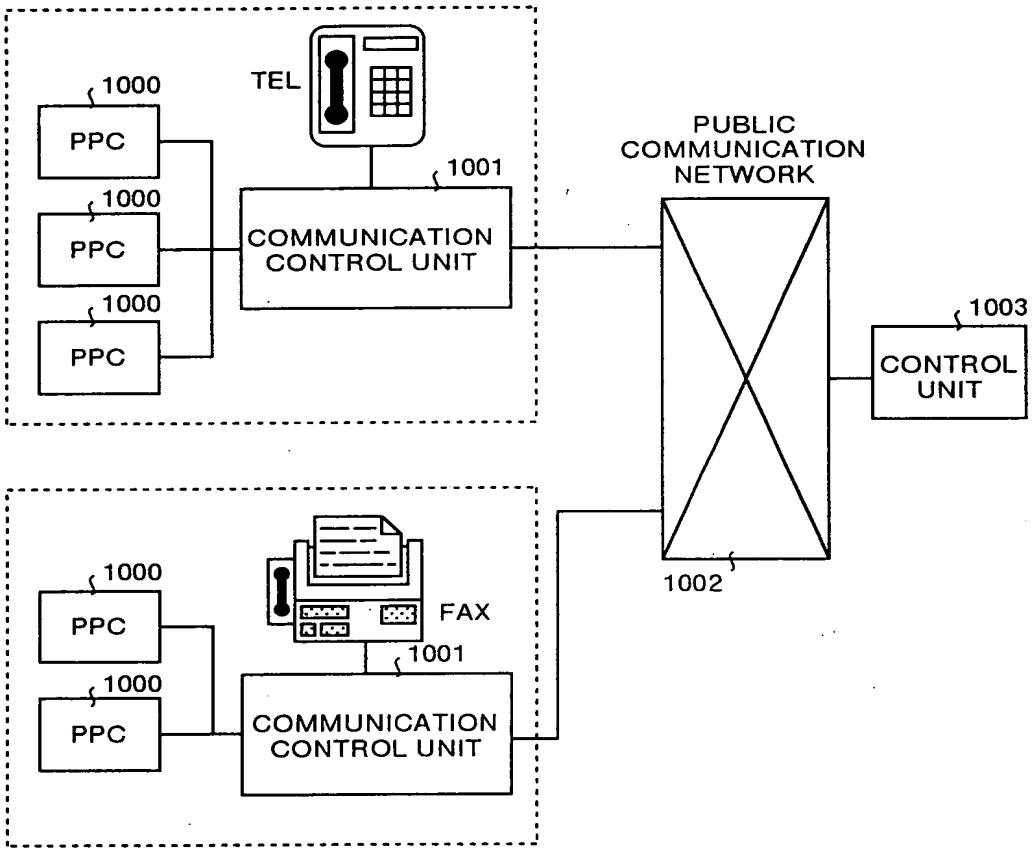
TEL
1000
PPC
1000
PPC
1000
PPC
1001
COMMUNICATION CONTROL UNIT
PUBLIC COMMUNICATION NETWORK
1003
CONTROL UNIT
1002
FAX
1000
PPC
1000
PPC
1001
COMMUNICATION CONTROL UNIT

FIG.20

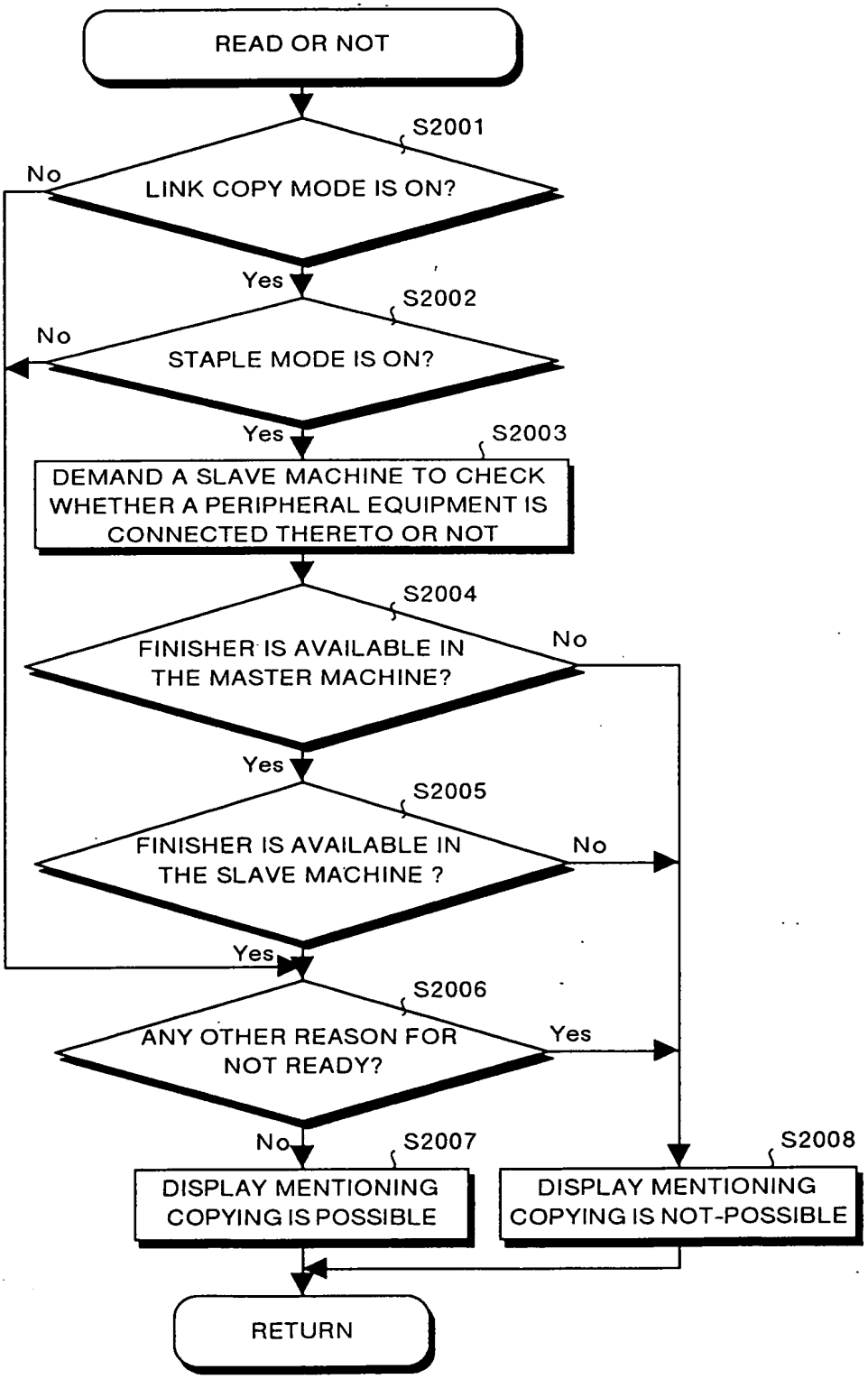
READ OR NOT
S2001
LINK COPY MODE IS ON?
No
Yes
S2002
STAPLE MODE IS ON?
No
Yes
S2003
DEMAND A SLAVE MACHINE TO CHECK WHETHER A PERIPHERAL EQUIPMENT IS CONNECTED THERETO OR NOT
S2004
FINISHER IS AVAILABLE IN THE MASTER MACHINE?
No
Yes
S2005
FINISHER IS AVAILABLE IN THE SLAVE MACHINE ?
No
Yes
S2006
ANY OTHER REASON FOR NOT READY?
Yes
No
S2007
DISPLAY MENTIONING COPYING IS POSSIBLE
S2008
DISPLAY MENTIONING COPYING IS NOT-POSSIBLE
RETURN

FIG.21

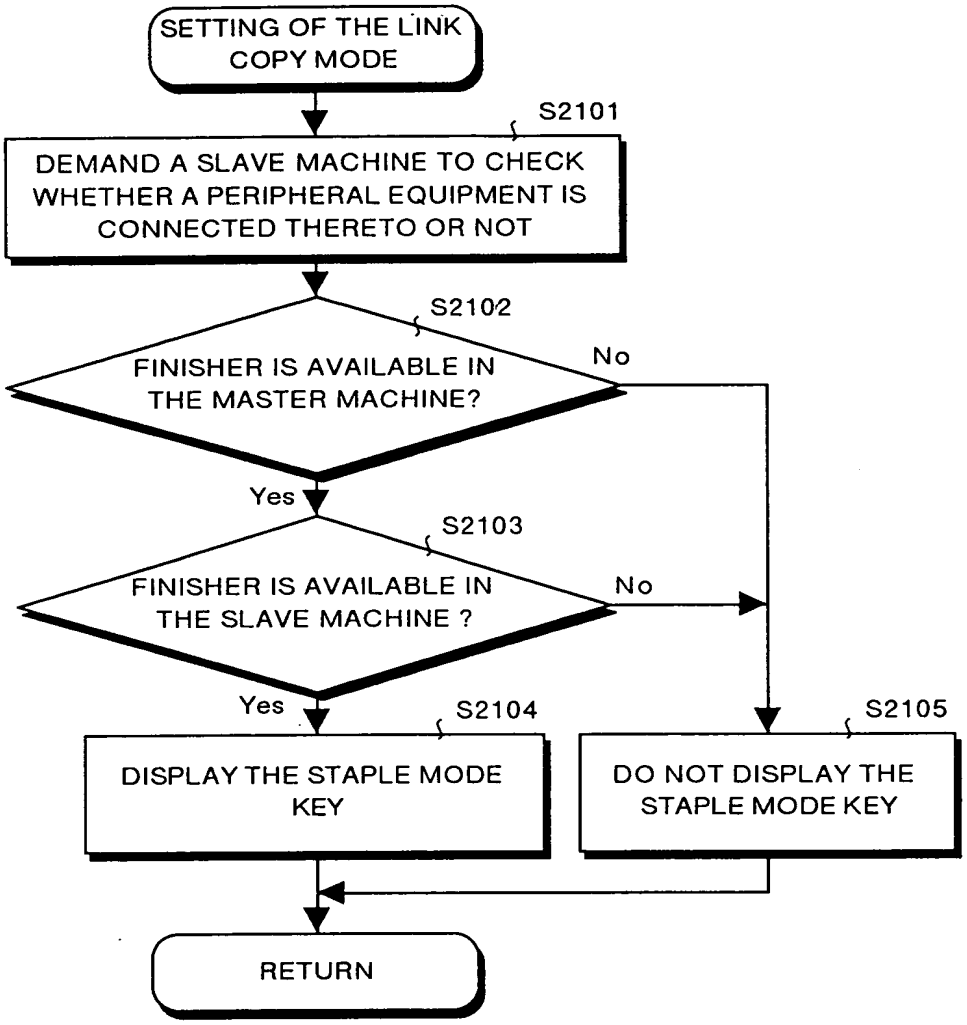
SETTING OF THE LINK COPY MODE
S2101
DEMAND A SLAVE MACHINE TO CHECK WHETHER A PERIPHERAL EQUIPMENT IS CONNECTED THERETO OR NOT
S2102
FINISHER IS AVAILABLE IN THE MASTER MACHINE?
No
Yes
S2103
FINISHER IS AVAILABLE IN THE SLAVE MACHINE ?
No
Yes
S2104
DISPLAY THE STAPLE MODE KEY
S2105
DO NOT DISPLAY THE STAPLE MODE KEY
RETURN

FIG.22

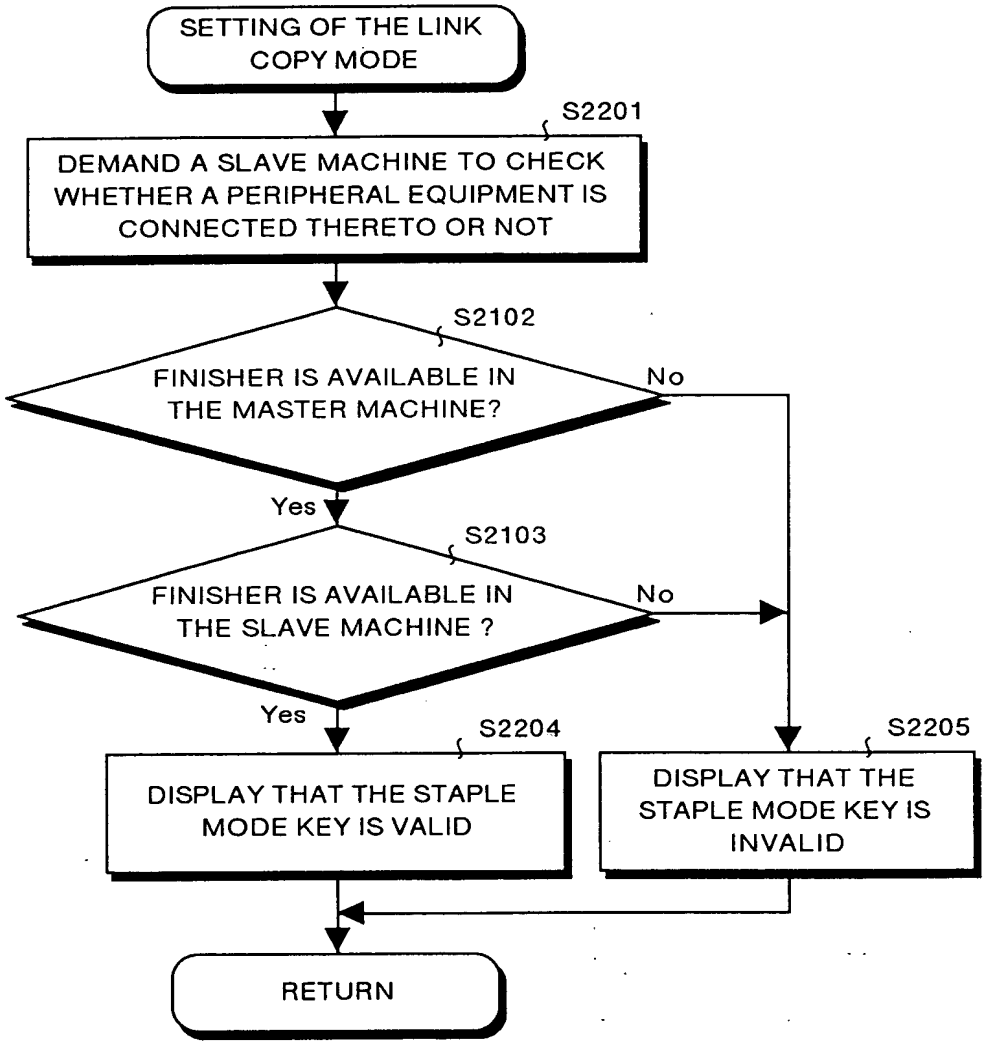
SETTING OF THE LINK COPY MODE
S2201
DEMAND A SLAVE MACHINE TO CHECK WHETHER A PERIPHERAL EQUIPMENT IS CONNECTED THERETO OR NOT
S2102
FINISHER IS AVAILABLE IN THE MASTER MACHINE?
No
Yes
S2103
FINISHER IS AVAILABLE IN THE SLAVE MACHINE ?
No
Yes
S2204
DISPLAY THAT THE STAPLE MODE KEY IS VALID
S2205
DISPLAY THAT THE STAPLE MODE KEY IS INVALID
RETURN

FIG.23

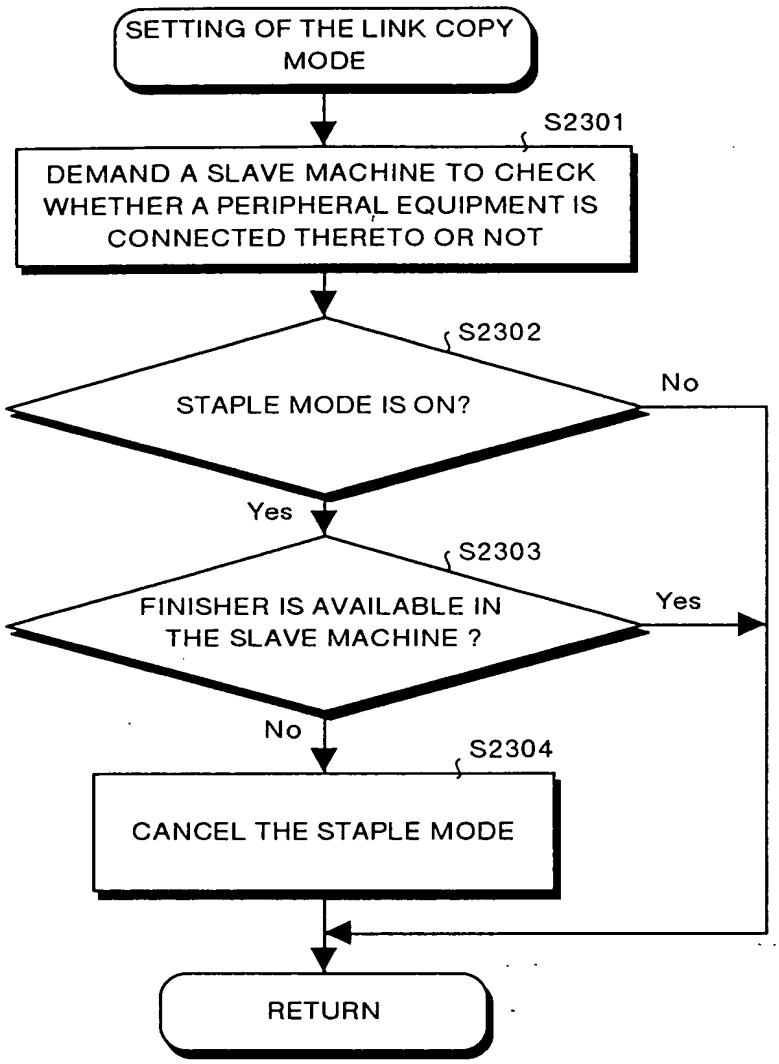
SETTING OF THE LINK COPY MODE
S2301
DEMAND A SLAVE MACHINE TO CHECK WHETHER A PERIPHERAL EQUIPMENT IS CONNECTED THERETO OR NOT
S2302
STAPLE MODE IS ON?
No
Yes
S2303
FINISHER IS AVAILABLE IN THE SLAVE MACHINE ?
Yes
No
S2304
CANCEL THE STAPLE MODE
RETURN

FIG.24

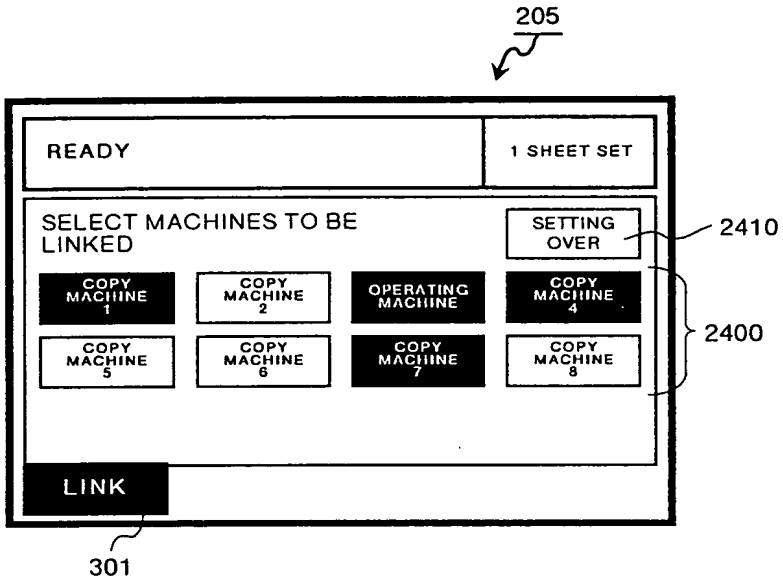
205
READY
1 SHEET SET
SELECT MACHINES TO BE LINKED
SETTING OVER
2410
COPY MACHINE 1
COPY MACHINE 2
OPERATING MACHINE
COPY MACHINE 4
COPY MACHINE 5
COPY MACHINE 6
COPY MACHINE 7
COPY MACHINE 8
2400
LINK
301

FIG.25

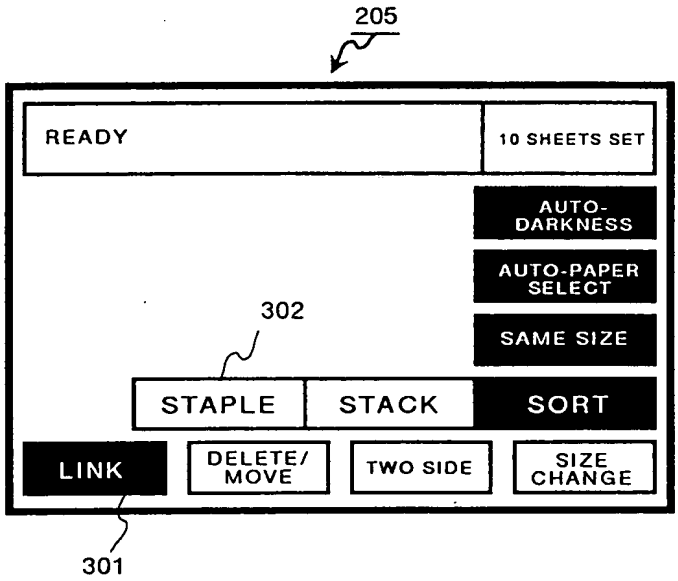
205
READY
10 SHEETS SET
AUTO-DARKNESS
AUTO-PAPER SELECT
SAME SIZE
302
STAPLE
STACK
SORT
LINK
DELETE/ MOVE
TWO SIDE
SIZE CHANGE
301

FIG.26

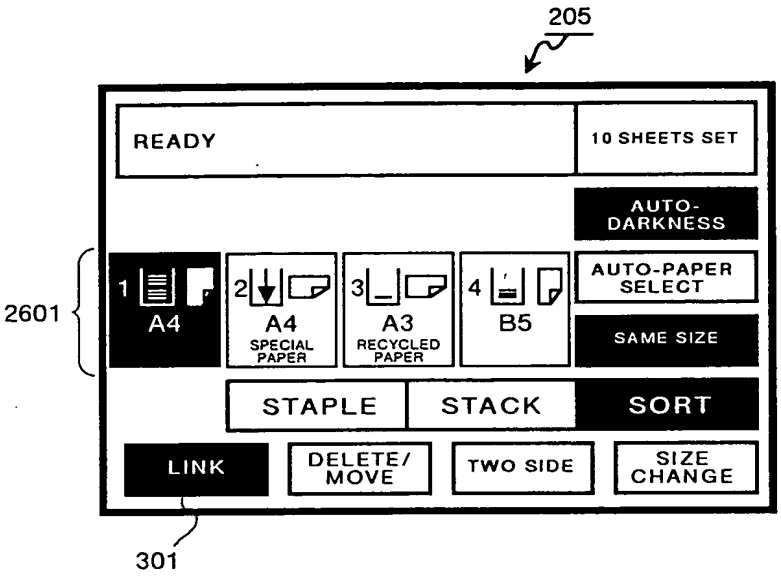
205
READY
10 SHEETS SET
AUTO-DARKNESS
2601
1 A4
2 A4 SPECIAL PAPER
3 A3 RECYCLED PAPER
4 B5
AUTO-PAPER SELECT
SAME SIZE
STAPLE
STACK
SORT
LINK
DELETE/ MOVE
TWO SIDE
SIZE CHANGE
301

FIG.27

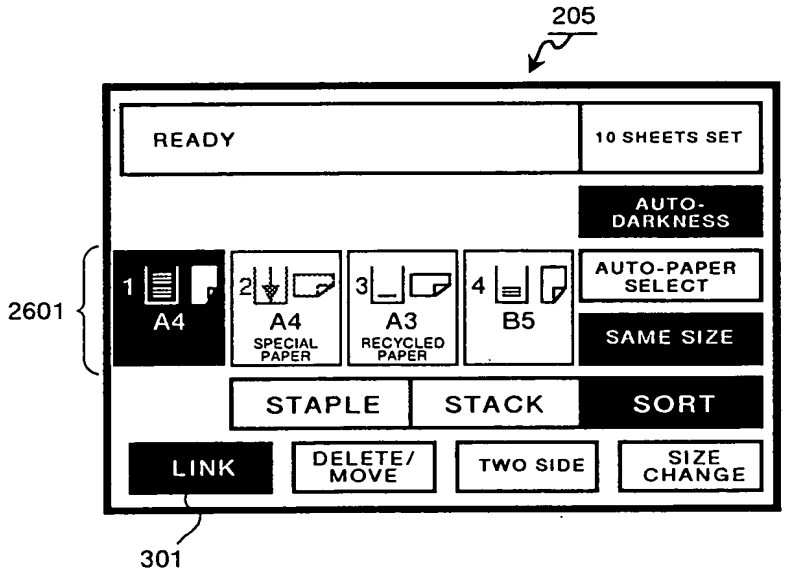
205
READY
10 SHEETS SET
AUTO-DARKNESS
2601
1 A4
2 A4 SPECIAL PAPER
3 A3 RECYCLED PAPER
4 B5
AUTO-PAPER SELECT
SAME SIZE
STAPLE
STACK
SORT
LINK
DELETE/ MOVE
TWO SIDE
SIZE CHANGE
301

FIG.28

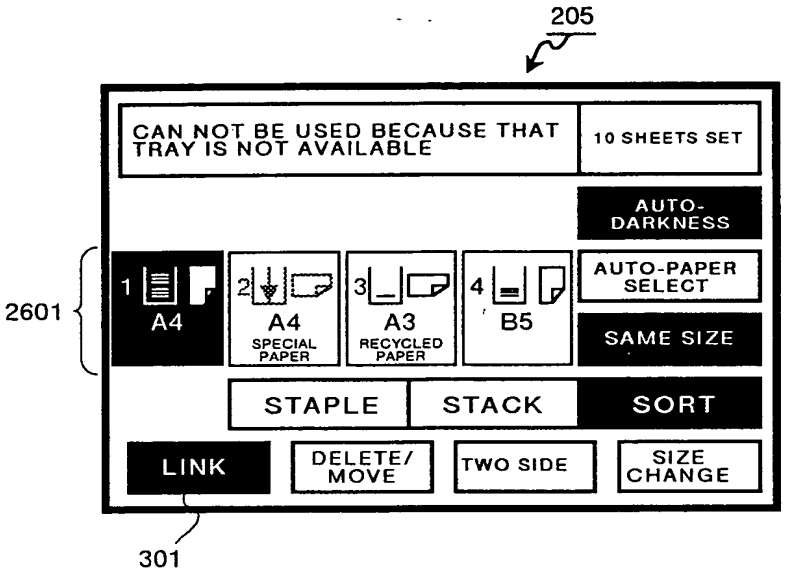
205
CAN NOT BE USED BECAUSE THAT TRAY IS NOT AVAILABLE
10 SHEETS SET
AUTO-DARKNESS
2601
1 A4
2 A4 SPECIAL PAPER
3 A3 RECYCLED PAPER
4 B5
AUTO-PAPER SELECT
SAME SIZE
STAPLE
STACK
SORT
LINK
DELETE/ MOVE
TWO SIDE
SIZE CHANGE
301

FIG.29

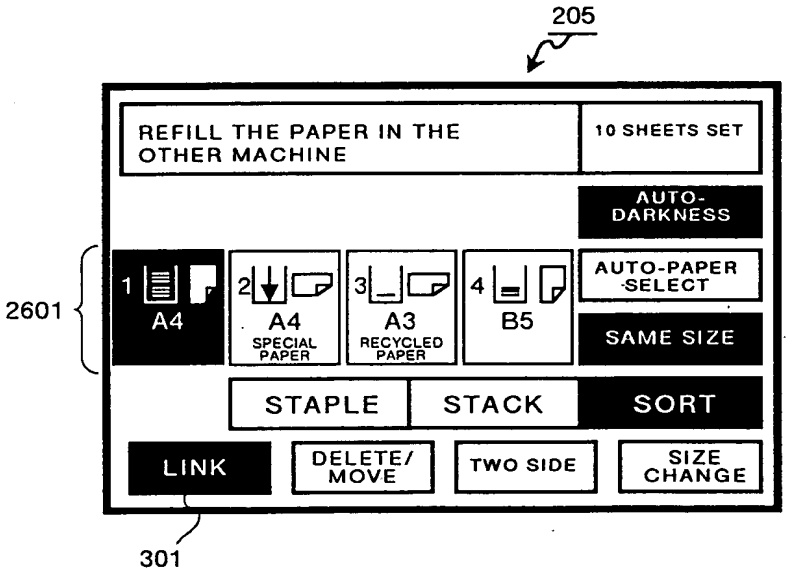
205
REFILL THE PAPER IN THE OTHER MACHINE
10 SHEETS SET
AUTO-DARKNESS
2601
1 A4
2 A4 SPECIAL PAPER
3 A3 RECYCLED PAPER
4 B5
AUTO-PAPER SELECT
SAME SIZE
STAPLE
STACK
SORT
LINK
DELETE/ MOVE
TWO SIDE
SIZE CHANGE
301

FIG.30

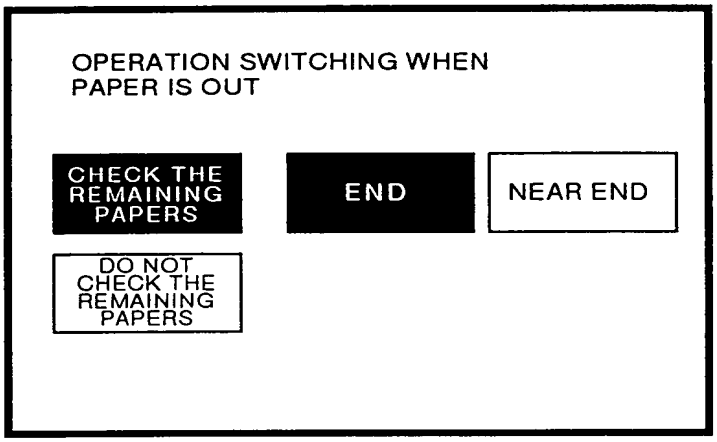
OPERATION SWITCHING WHEN PAPER IS OUT
CHECK THE REMAINING PAPERS
END
NEAR END
DO NOT CHECK THE REMAINING PAPERS

FIG.31

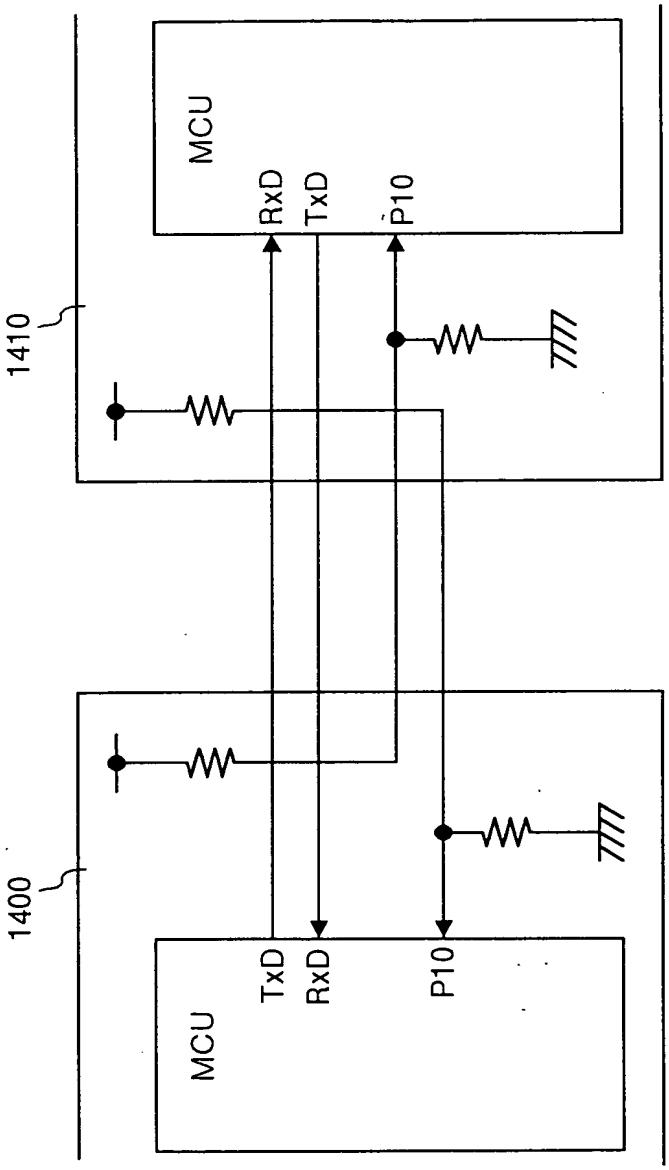

FIG.32

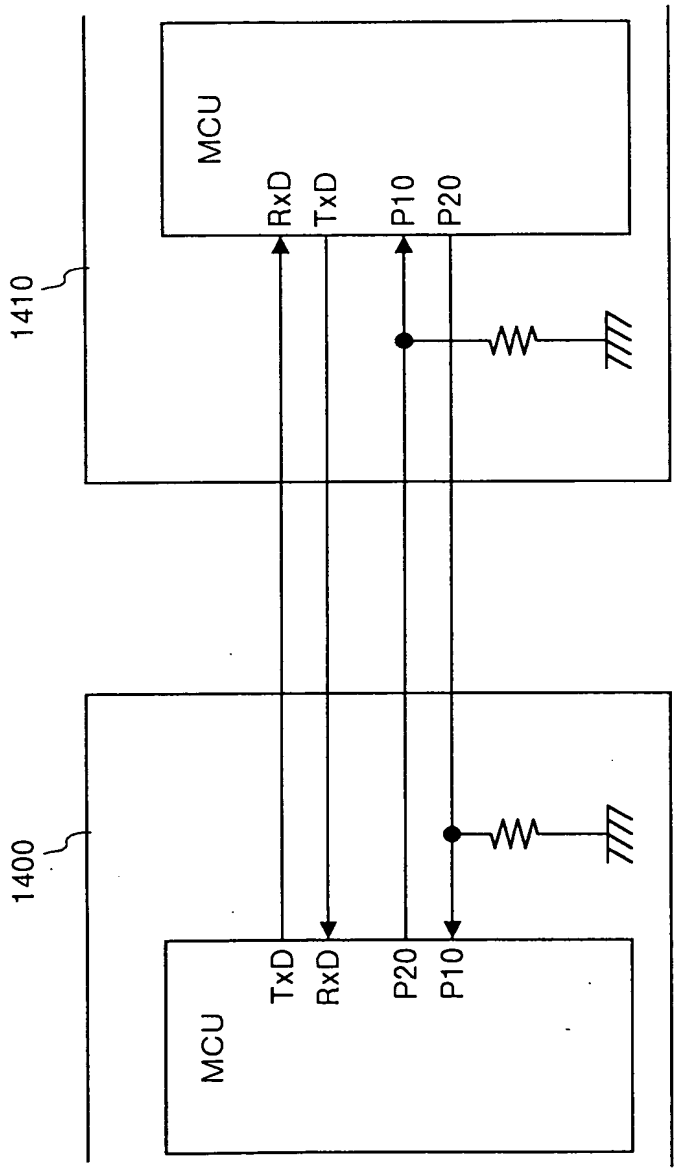

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FIG.33

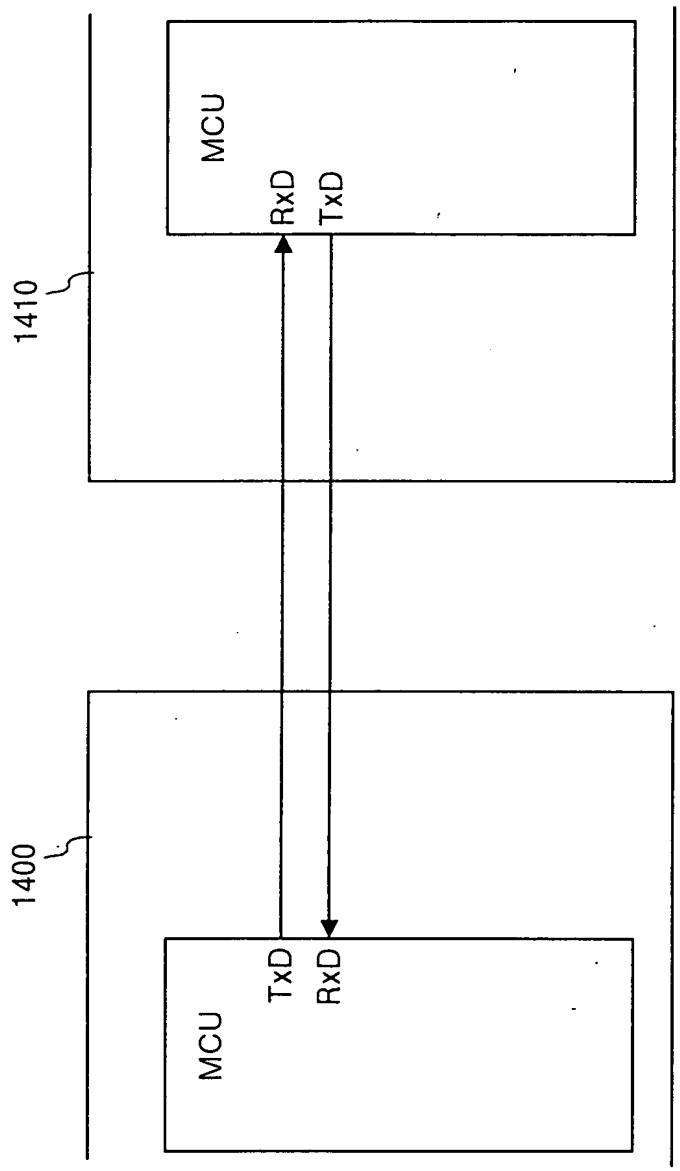

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FIG.34

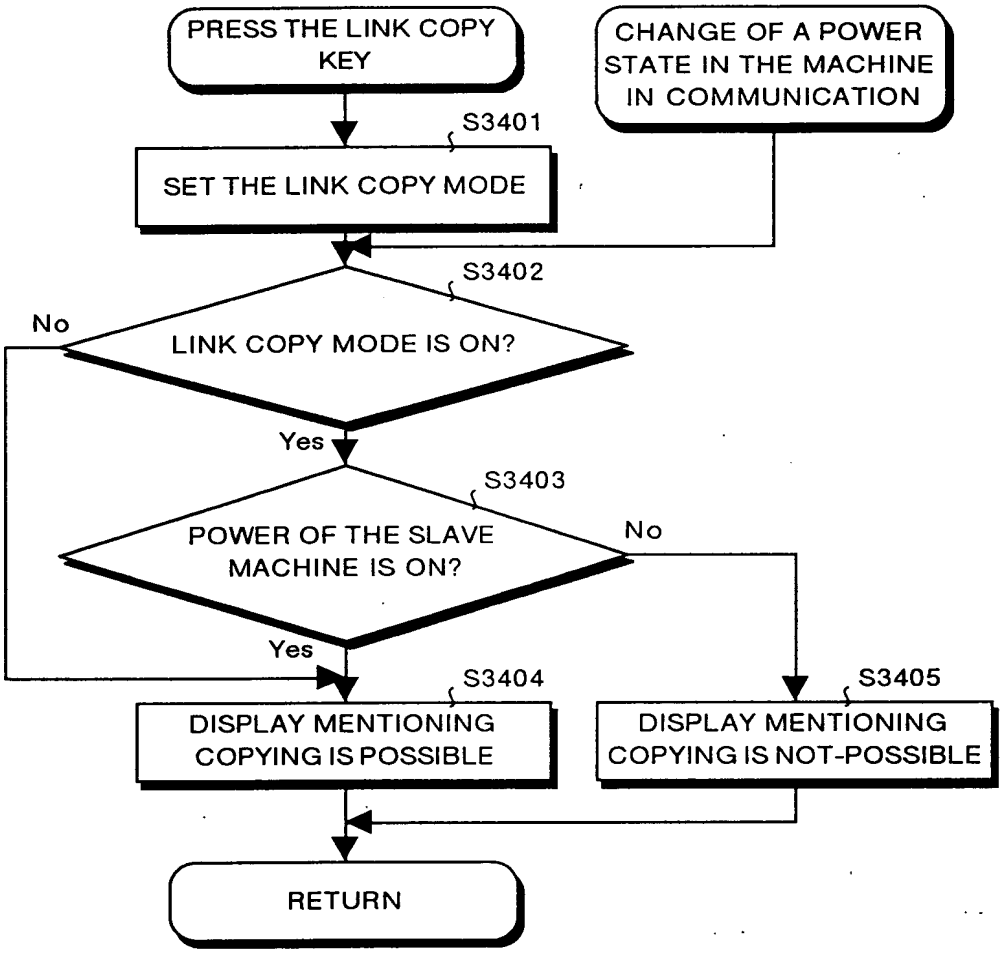

FIG.35

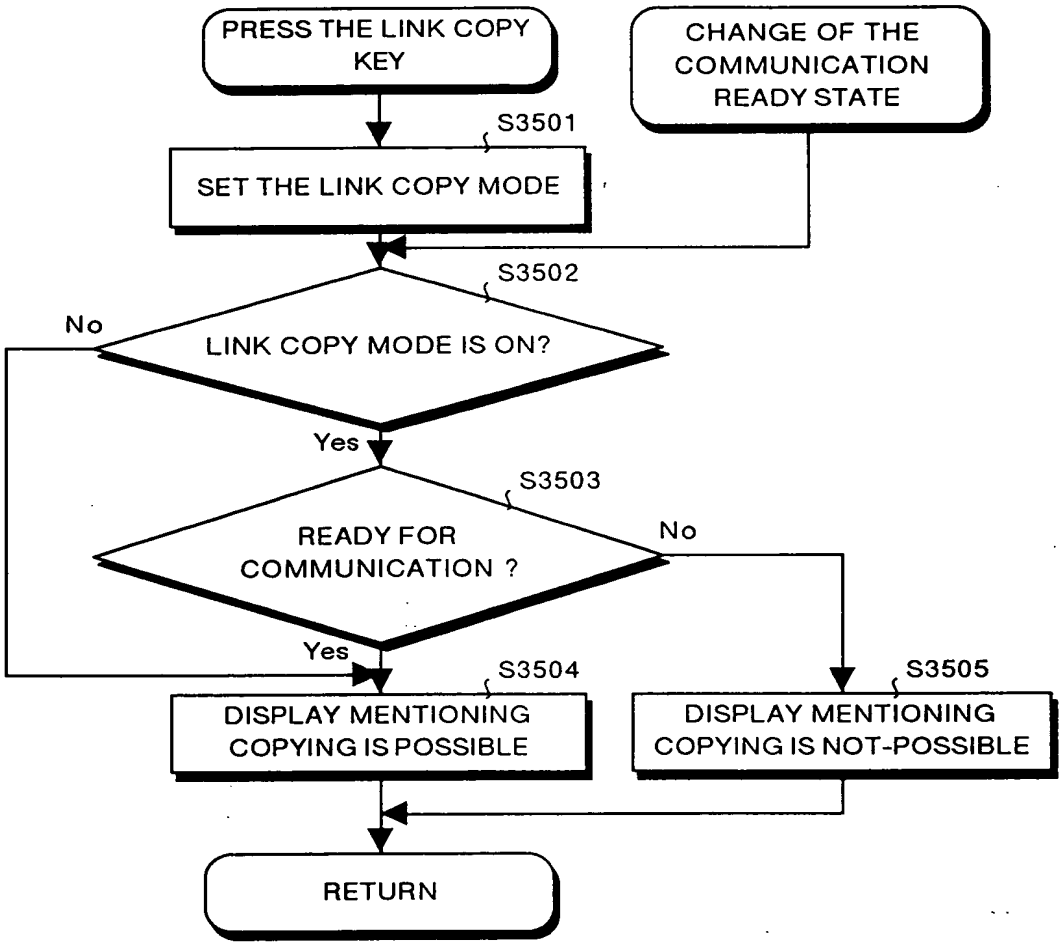
PRESS THE LINK COPY KEY
CHANGE OF THE COMMUNICATION READY STATE
S3501
SET THE LINK COPY MODE
S3502
No
LINK COPY MODE IS ON?
Yes
S3503
READY FOR COMMUNICATION ?
No
Yes
S3504
DISPLAY MENTIONING COPYING IS POSSIBLE
S3505
DISPLAY MENTIONING COPYING IS NOT-POSSIBLE
RETURN

FIG.36

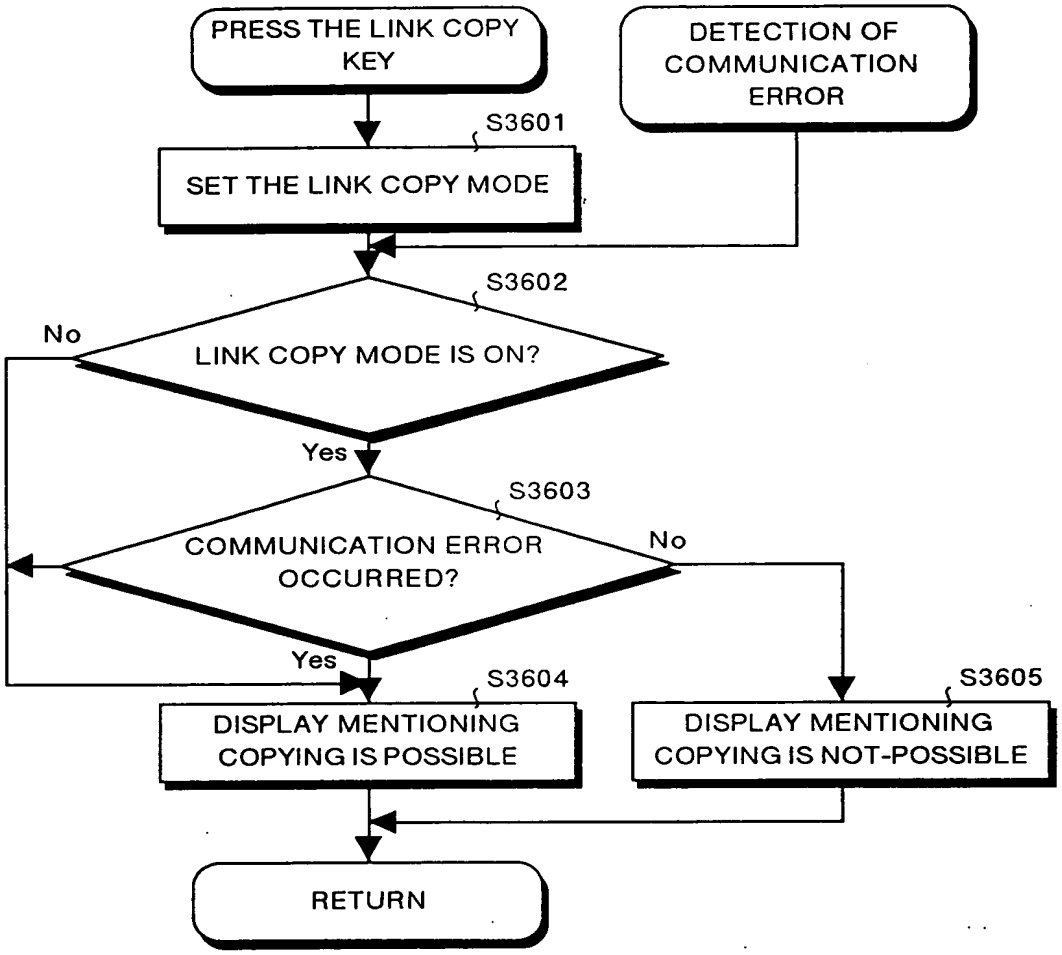
PRESS THE LINK COPY KEY
DETECTION OF COMMUNICATION ERROR
S3601
SET THE LINK COPY MODE
S3602
No
LINK COPY MODE IS ON?
Yes
S3603
COMMUNICATION ERROR OCCURRED?
No
Yes
S3604
DISPLAY MENTIONING COPYING IS POSSIBLE
S3605
DISPLAY MENTIONING COPYING IS NOT-POSSIBLE
RETURN

FIG.37

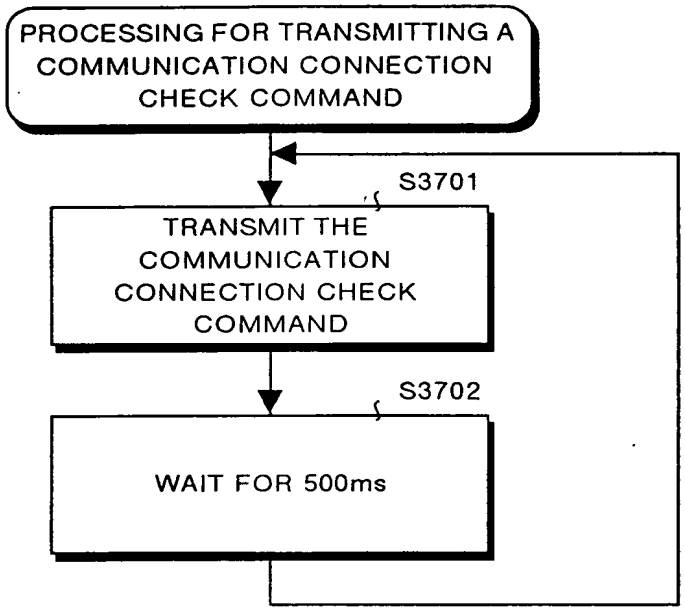
PROCESSING FOR TRANSMITTING A COMMUNICATION CONNECTION CHECK COMMAND
S3701
TRANSMIT THE COMMUNICATION CONNECTION CHECK COMMAND
S3702
WAIT FOR 500ms

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FIG.38

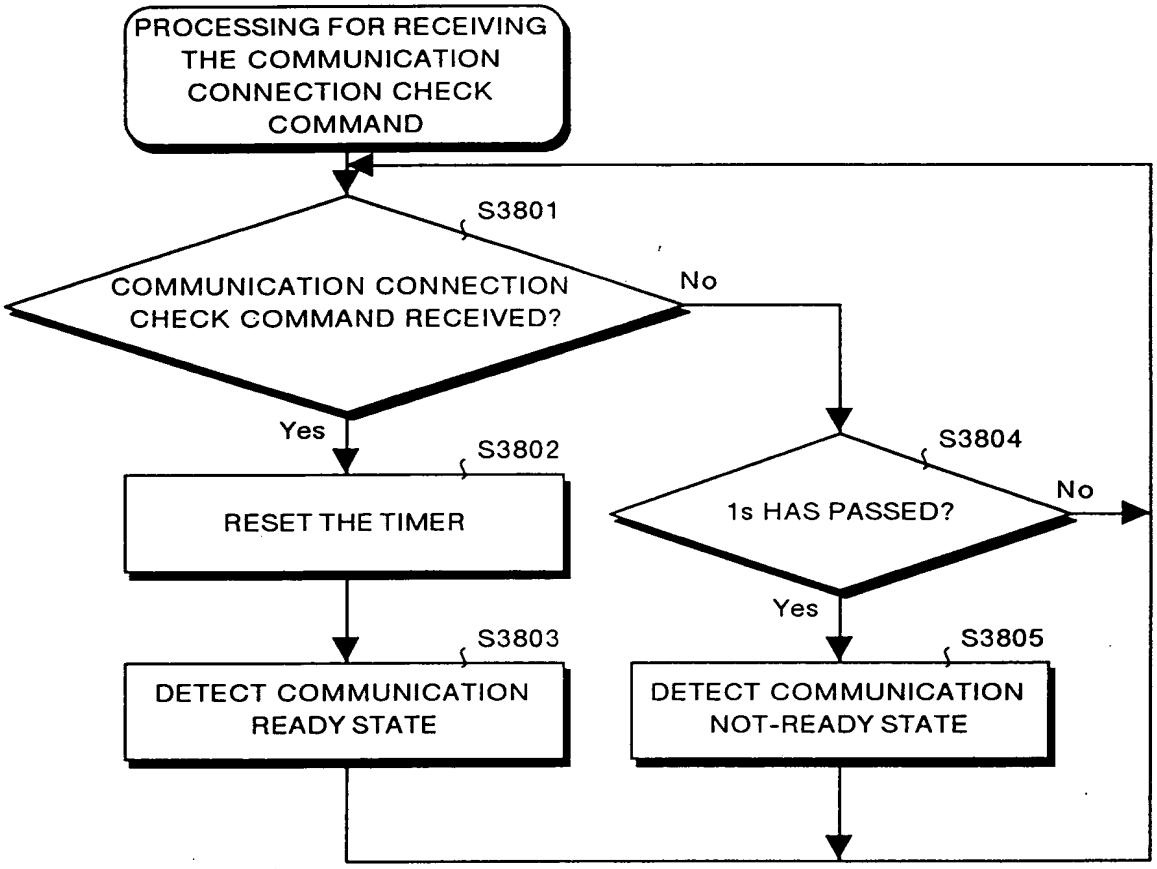

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FIG.39

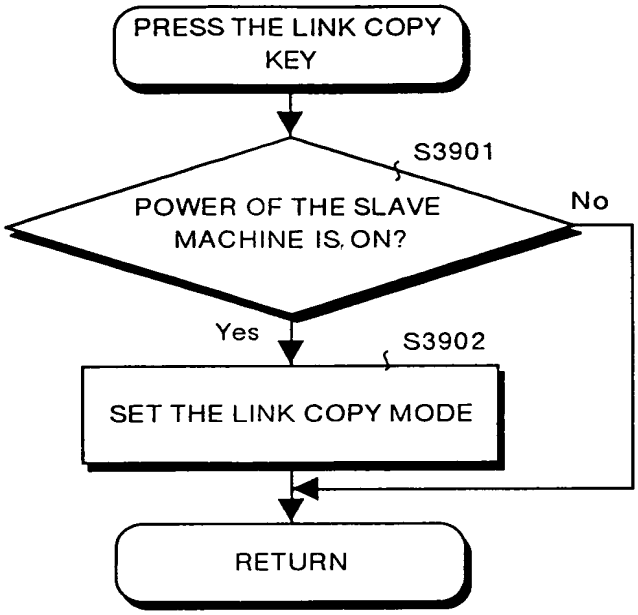

FIG.40

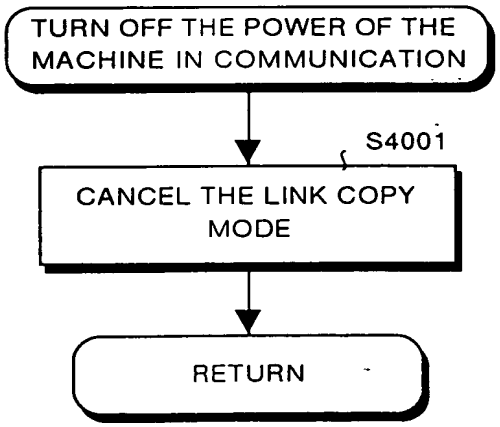

FIG.41

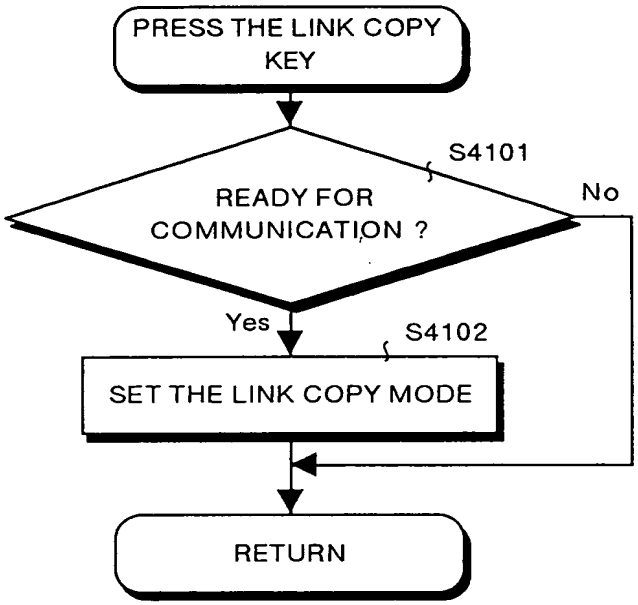
PRESS THE LINK COPY KEY
S4101
READY FOR COMMUNICATION ?
No
Yes
S4102
SET THE LINK COPY MODE
RETURN

FIG.42

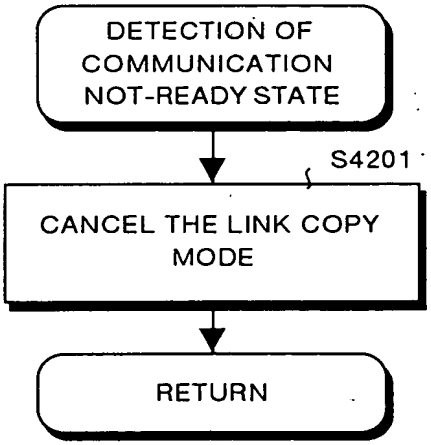
DETECTION OF COMMUNICATION NOT-READY STATE
S4201
CANCEL THE LINK COPY MODE
RETURN

FIG.43

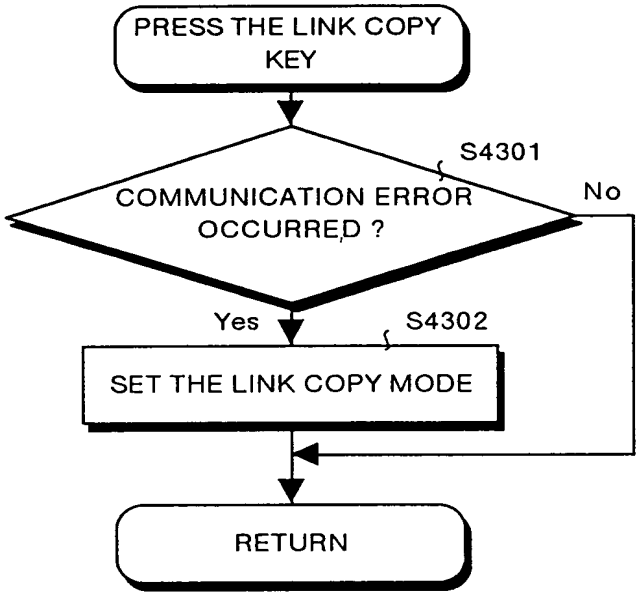
PRESS THE LINK COPY KEY
S4301
COMMUNICATION ERROR OCCURRED ?
No
Yes
S4302
SET THE LINK COPY MODE
RETURN

FIG.44

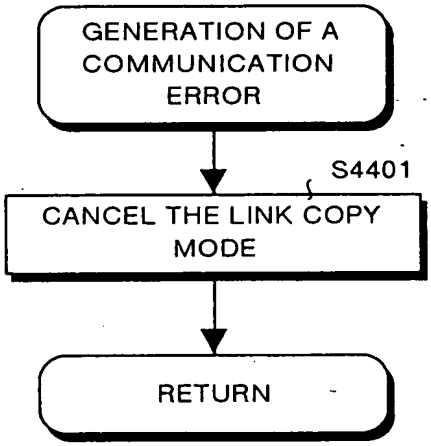
GENERATION OF A COMMUNICATION ERROR
S4401
CANCEL THE LINK COPY MODE
RETURN

FIG.45

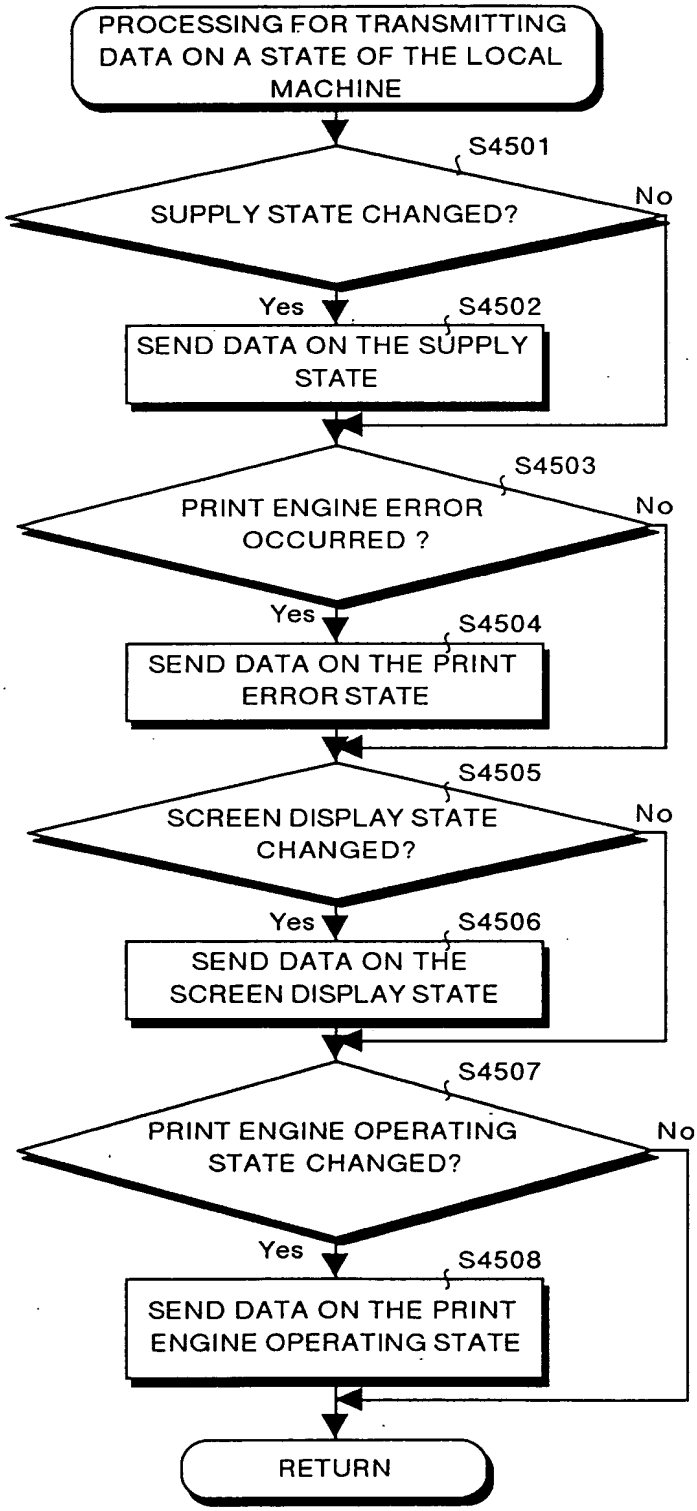
PROCESSING FOR TRANSMITTING DATA ON A STATE OF THE LOCAL MACHINE
S4501
SUPPLY STATE CHANGED?
No
Yes
S4502
SEND DATA ON THE SUPPLY STATE
S4503
PRINT ENGINE ERROR OCCURRED ?
No
Yes
S4504
SEND DATA ON THE PRINT ERROR STATE
S4505
SCREEN DISPLAY STATE CHANGED?
No
Yes
S4506
SEND DATA ON THE SCREEN DISPLAY STATE
S4507
PRINT ENGINE OPERATING STATE CHANGED?
No
Yes
S4508
SEND DATA ON THE PRINT ENGINE OPERATING STATE
RETURN

FIG.46

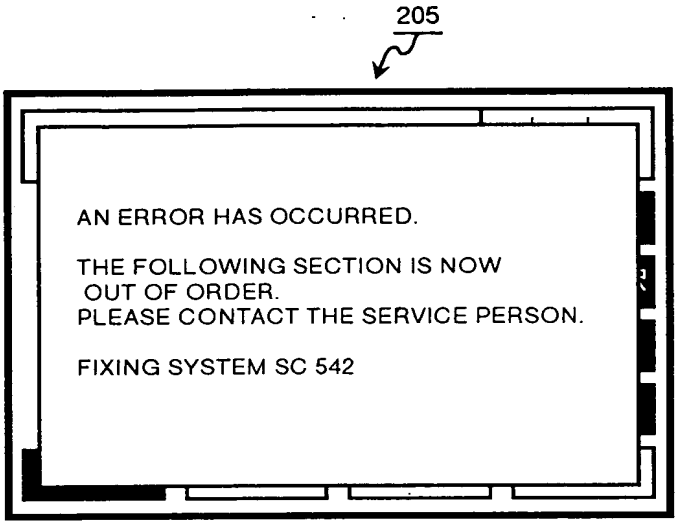
205
AN ERROR HAS OCCURRED.
THE FOLLOWING SECTION IS NOW OUT OF ORDER.
PLEASE CONTACT THE SERVICE PERSON.
FIXING SYSTEM SC 542

FIG.47

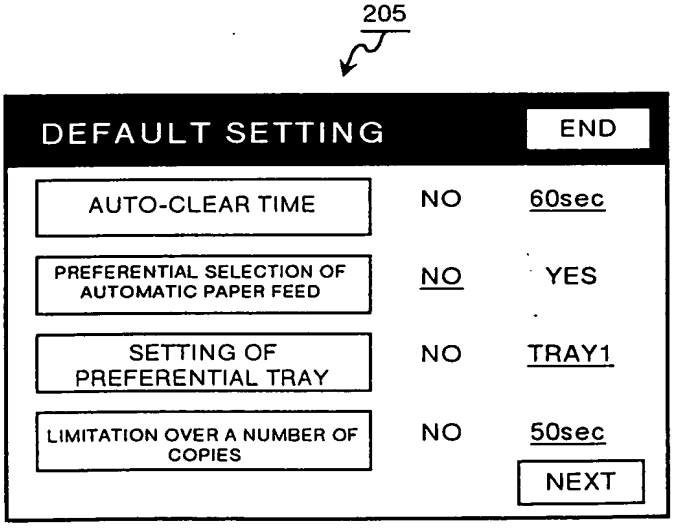
205
DEFAULT SETTING
END
AUTO-CLEAR TIME
NO
60sec
PREFERENTIAL SELECTION OF AUTOMATIC PAPER FEED
NO
YES
SETTING OF PREFERENTIAL TRAY
NO
TRAY1
LIMITATION OVER A NUMBER OF COPIES
NO
50sec
NEXT

FIG.48

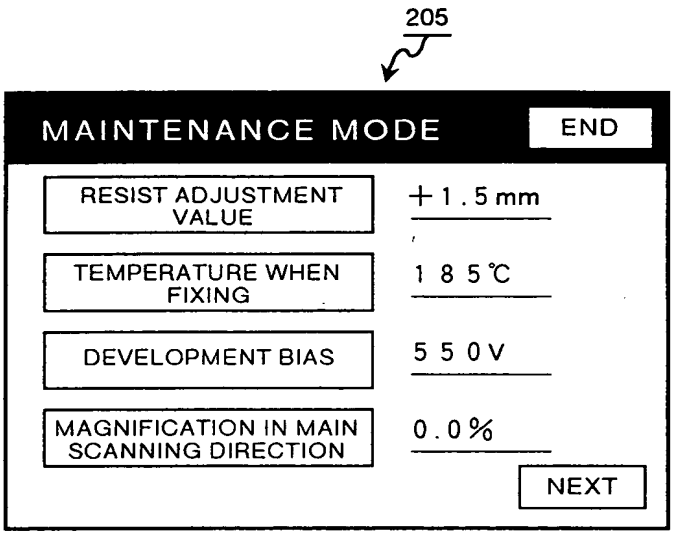
205
MAINTENANCE MODE
END
RESIST ADJUSTMENT VALUE
+1.5mm
TEMPERATURE WHEN FIXING
185℃
DEVELOPMENT BIAS
550V
MAGNIFICATION IN MAIN SCANNING DIRECTION
0.0%
NEXT

FIG.49

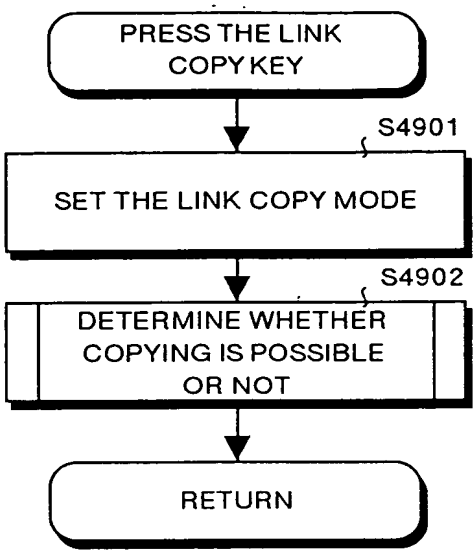
PRESS THE LINK COPY KEY
S4901
SET THE LINK COPY MODE
S4902
DETERMINE WHETHER COPYING IS POSSIBLE OR NOT
RETURN

FIG.50

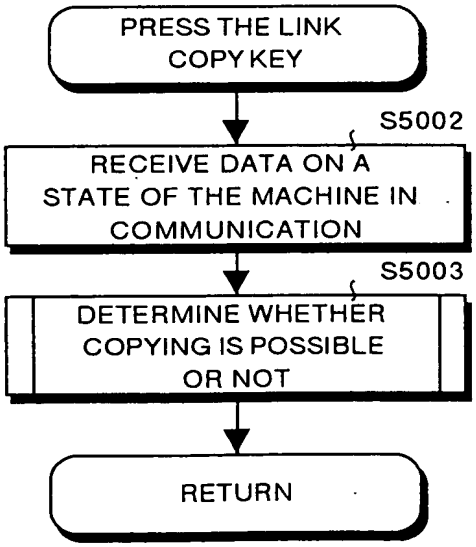
PRESS THE LINK COPY KEY
S5002
RECEIVE DATA ON A STATE OF THE MACHINE IN COMMUNICATION
S5003
DETERMINE WHETHER COPYING IS POSSIBLE OR NOT
RETURN

FIG.51

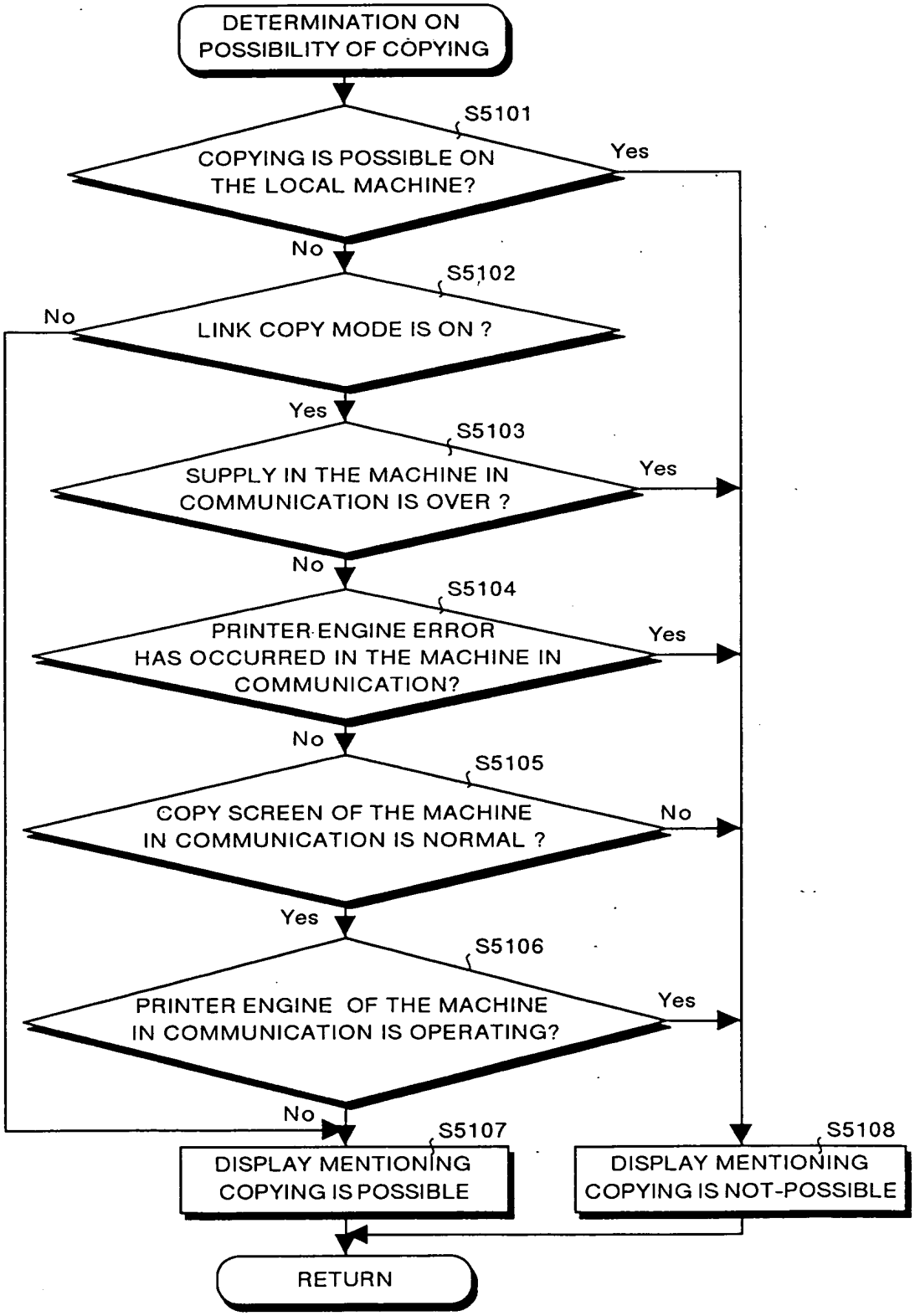
DETERMINATION ON POSSIBILITY OF COPYING
S5101
COPYING IS POSSIBLE ON THE LOCAL MACHINE?
Yes
No
S5102
LINK COPY MODE IS ON ?
No
Yes
S5103
SUPPLY IN THE MACHINE IN COMMUNICATION IS OVER ?
Yes
No
S5104
PRINTER ENGINE ERROR HAS OCCURRED IN THE MACHINE IN COMMUNICATION?
Yes
No
S5105
COPY SCREEN OF THE MACHINE IN COMMUNICATION IS NORMAL ?
No
Yes
S5106
PRINTER ENGINE OF THE MACHINE IN COMMUNICATION IS OPERATING?
Yes
No
S5107
DISPLAY MENTIONING COPYING IS POSSIBLE
S5108
DISPLAY MENTIONING COPYING IS NOT-POSSIBLE
RETURN

FIG.52

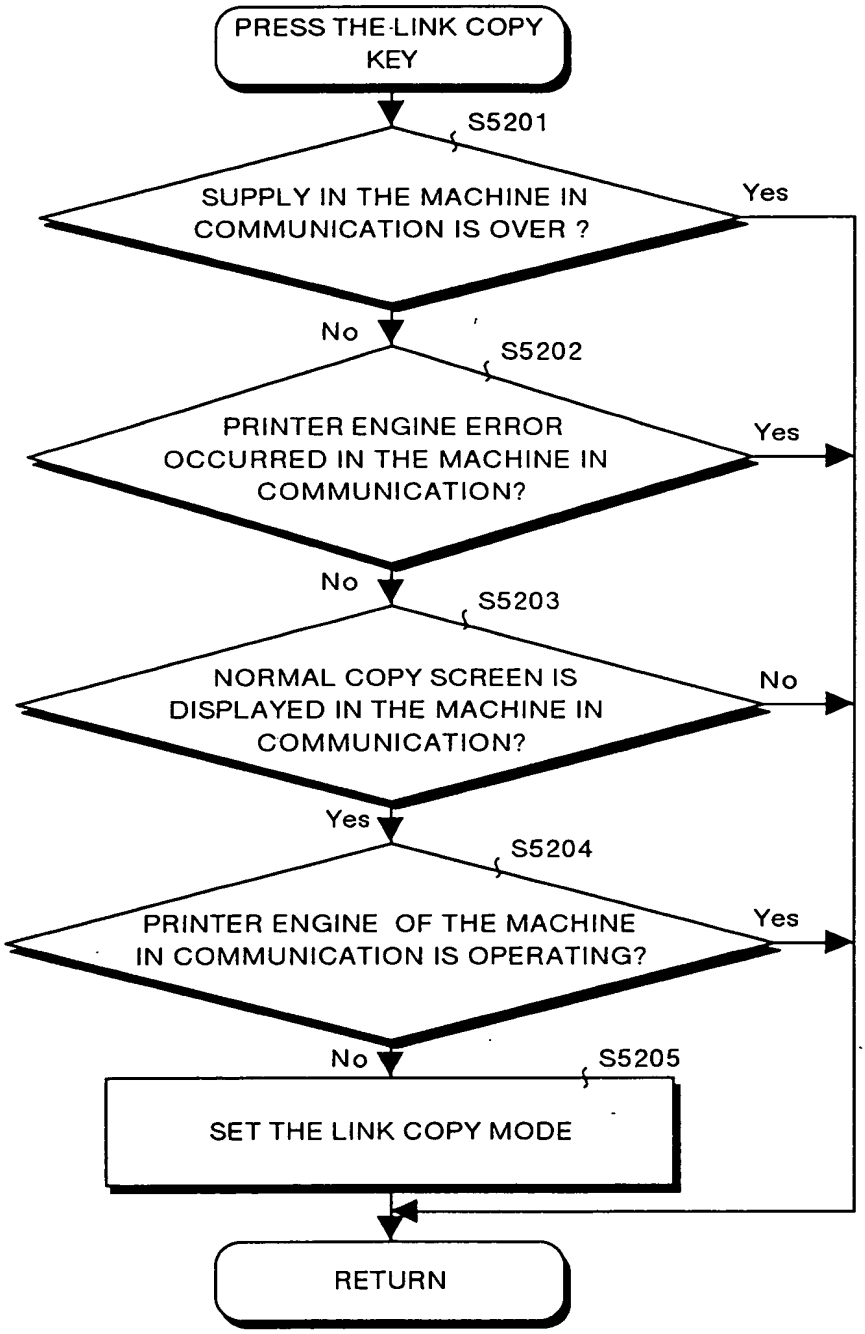
PRESS THE LINK COPY KEY
S5201
SUPPLY IN THE MACHINE IN COMMUNICATION IS OVER ?
Yes
No
S5202
PRINTER ENGINE ERROR OCCURRED IN THE MACHINE IN COMMUNICATION?
Yes
No
S5203
NORMAL COPY SCREEN IS DISPLAYED IN THE MACHINE IN COMMUNICATION?
No
Yes
S5204
PRINTER ENGINE OF THE MACHINE IN COMMUNICATION IS OPERATING?
Yes
No
S5205
SET THE LINK COPY MODE
RETURN

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FIG.53

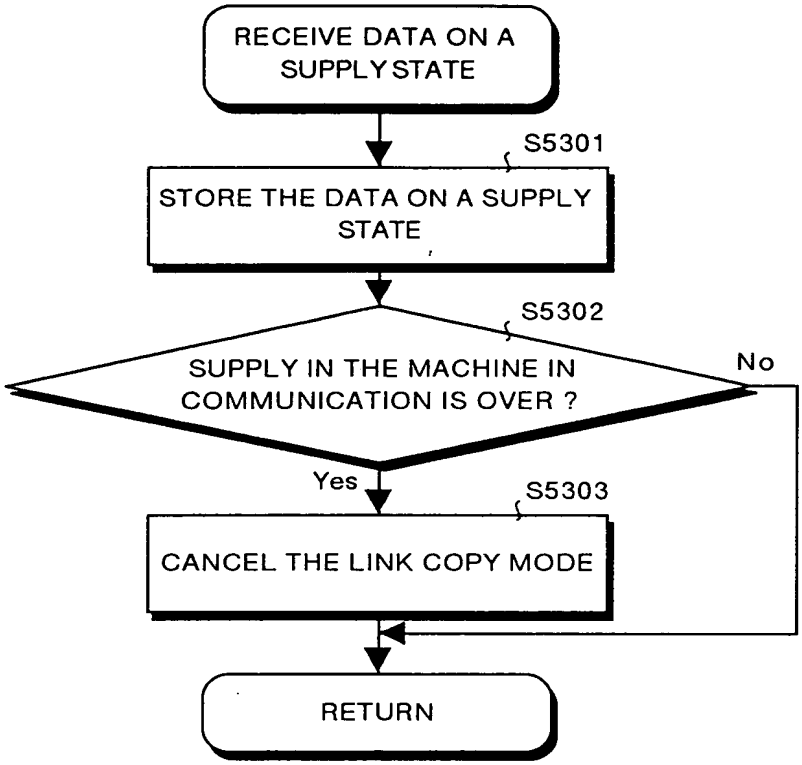


FIG.54

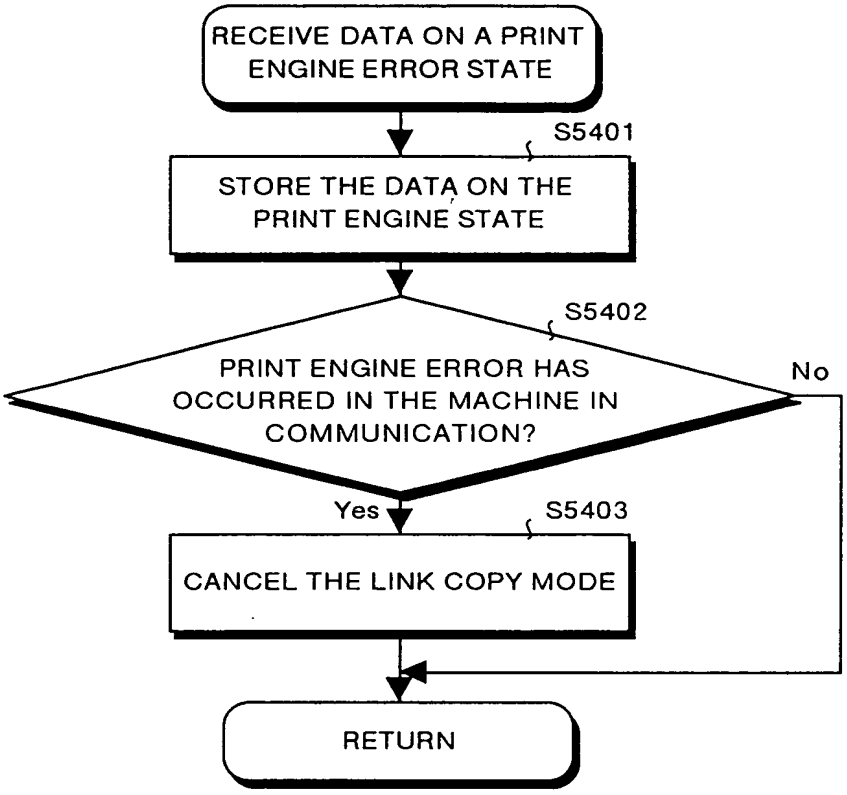

RECEIVE DATA ON A PRINT ENGINE ERROR STATE
S5401
STORE THE DATA ON THE PRINT ENGINE STATE
S5402
PRINT ENGINE ERROR HAS OCCURRED IN THE MACHINE IN COMMUNICATION?
No
Yes
S5403
CANCEL THE LINK COPY MODE
RETURN

FIG.55

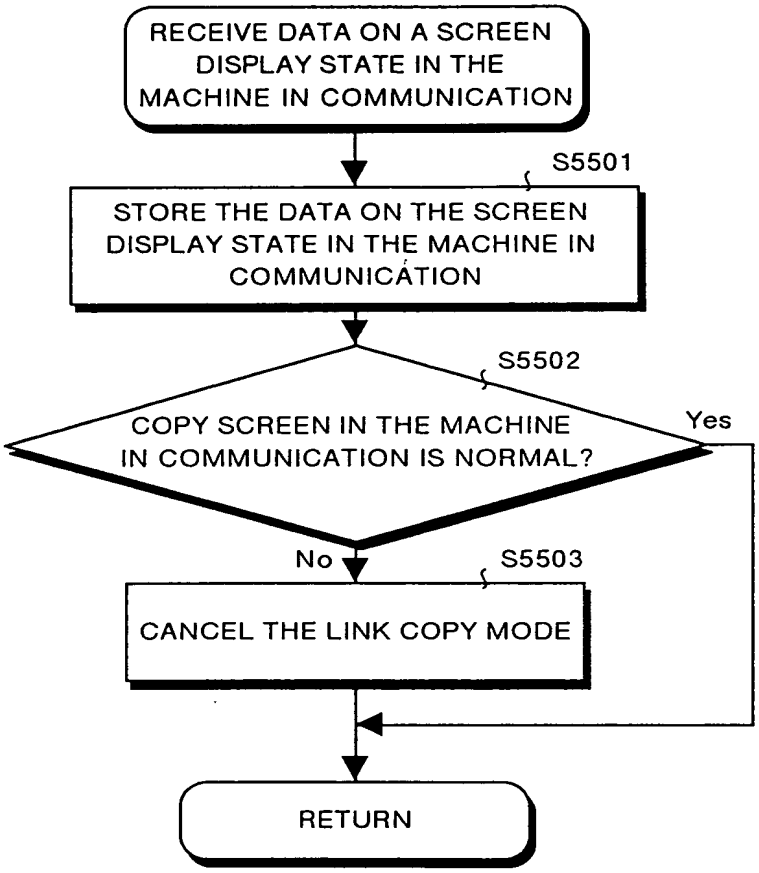

RECEIVE DATA ON A SCREEN DISPLAY STATE IN THE MACHINE IN COMMUNICATION
S5501
STORE THE DATA ON THE SCREEN DISPLAY STATE IN THE MACHINE IN COMMUNICATION
S5502
COPY SCREEN IN THE MACHINE IN COMMUNICATION IS NORMAL?
Yes
No
S5503
CANCEL THE LINK COPY MODE
RETURN

FIG.56

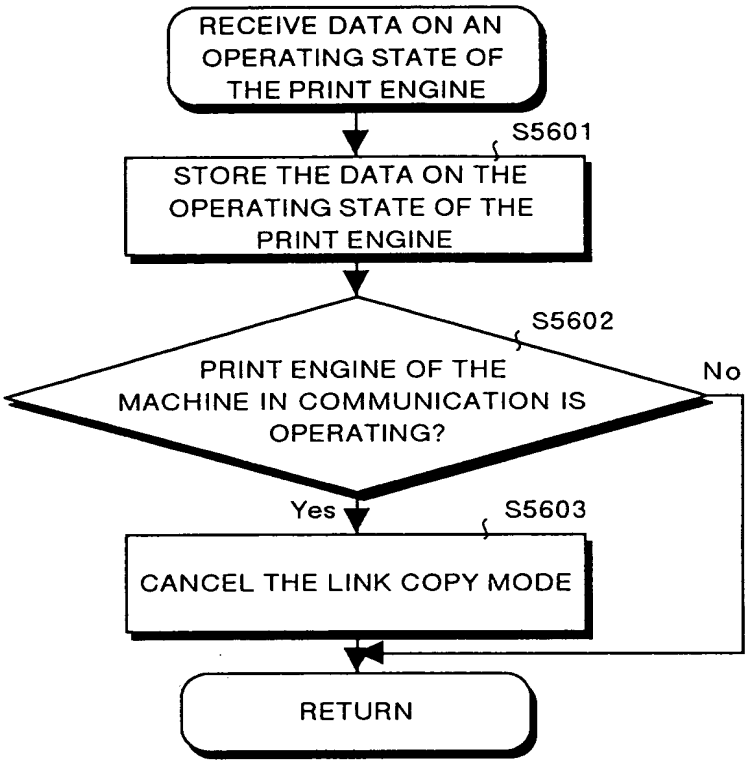

RECEIVE DATA ON AN OPERATING STATE OF THE PRINT ENGINE
S5601
STORE THE DATA ON THE OPERATING STATE OF THE PRINT ENGINE
S5602
PRINT ENGINE OF THE MACHINE IN COMMUNICATION IS OPERATING?
No
Yes
S5603
CANCEL THE LINK COPY MODE
RETURN

FIG.57

EXAMPLE OF ELECTRONIC SORTING OPERATION

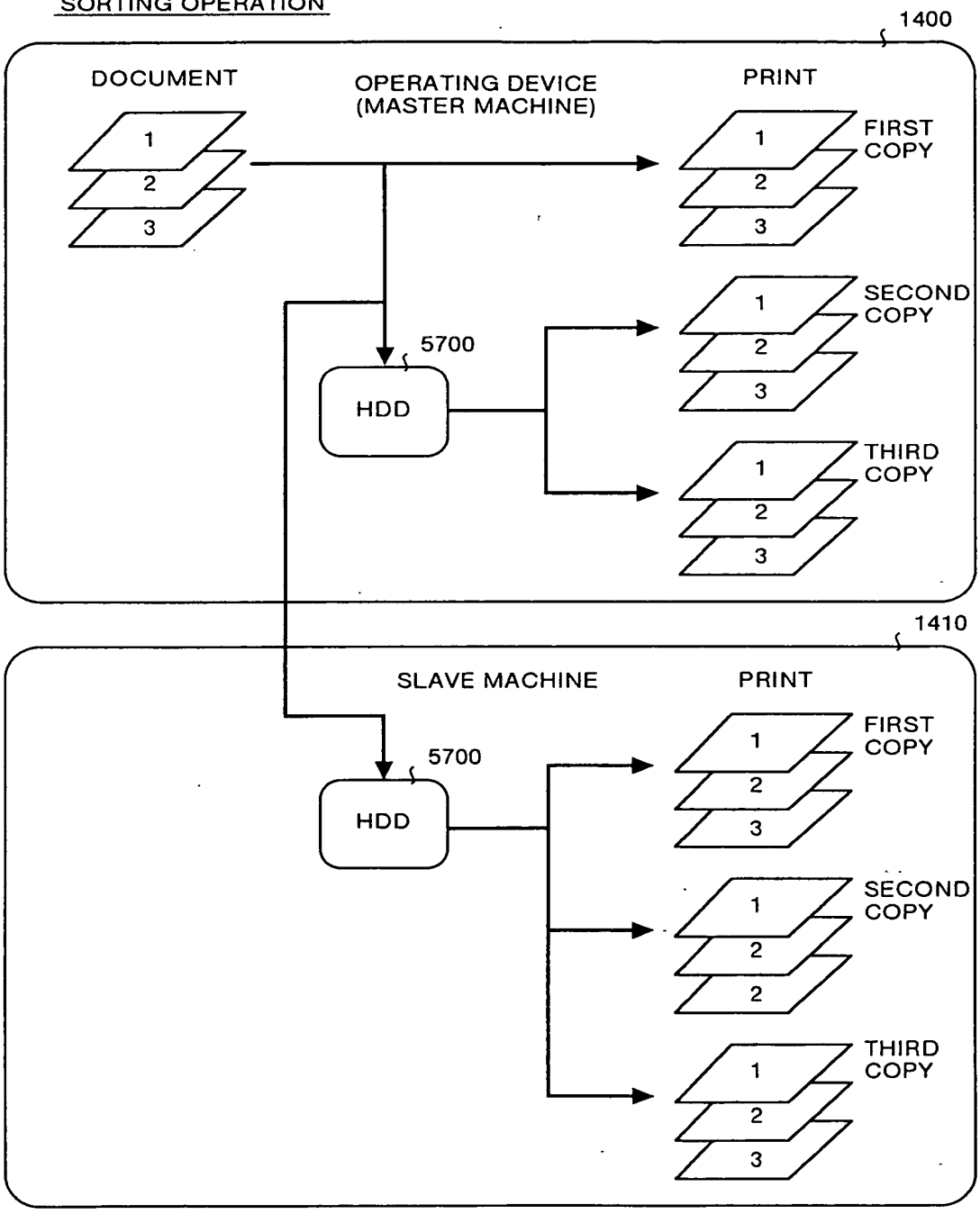


FIG.58

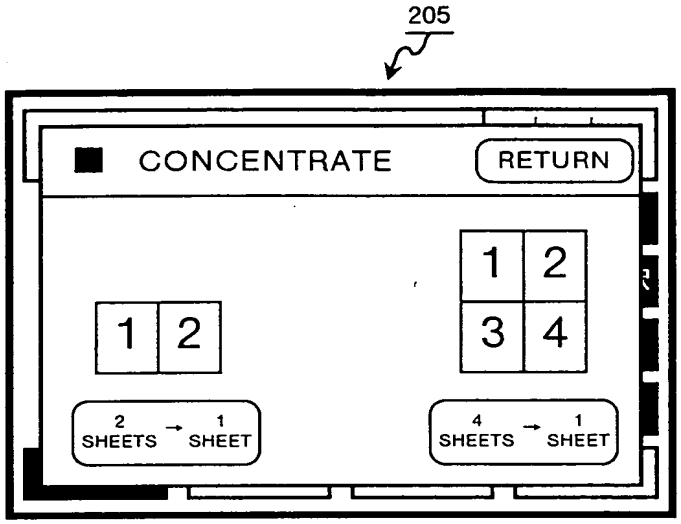

205
CONCENTRATE
RETURN
1 2
1 2
3 4
2 SHEETS → 1 SHEET
4 SHEETS → 1 SHEET

FIG.59

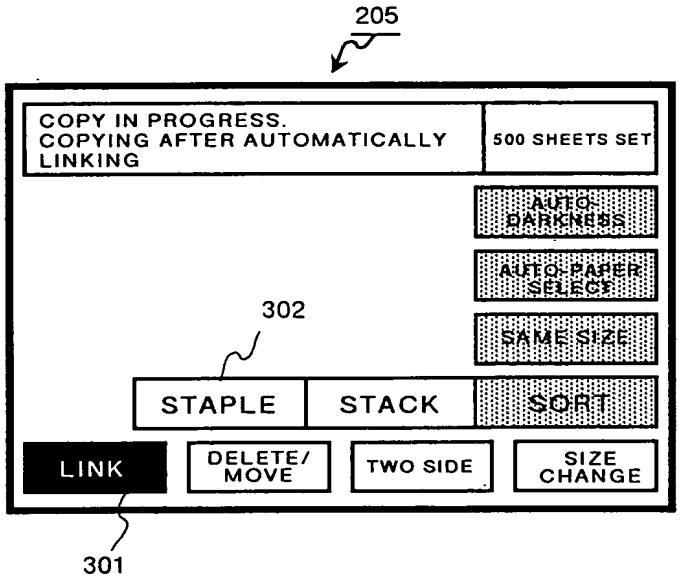

205
COPY IN PROGRESS.
COPYING AFTER AUTOMATICALLY LINKING
500 SHEETS SET
AUTO-DARKNESS
AUTO-PAPER SELECT
SAME SIZE
302
STAPLE
STACK
SORT
LINK
DELETE/MOVE
TWO SIDE
SIZE CHANGE
301

FIG.60

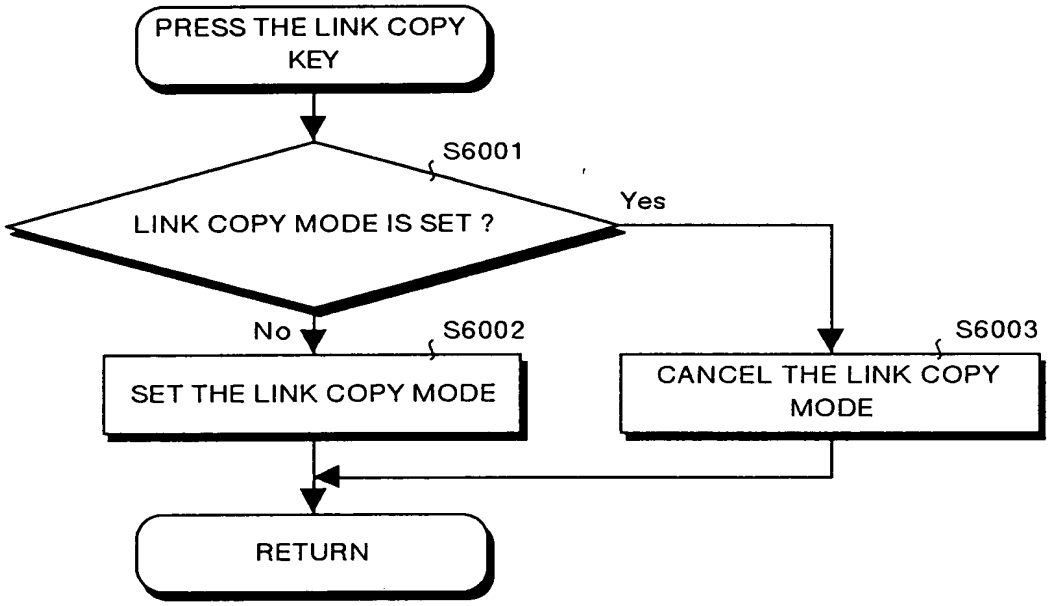

PRESS THE LINK COPY KEY
S6001
LINK COPY MODE IS SET ?
Yes
No
S6002
SET THE LINK COPY MODE
S6003
CANCEL THE LINK COPY MODE
RETURN

FIG.61

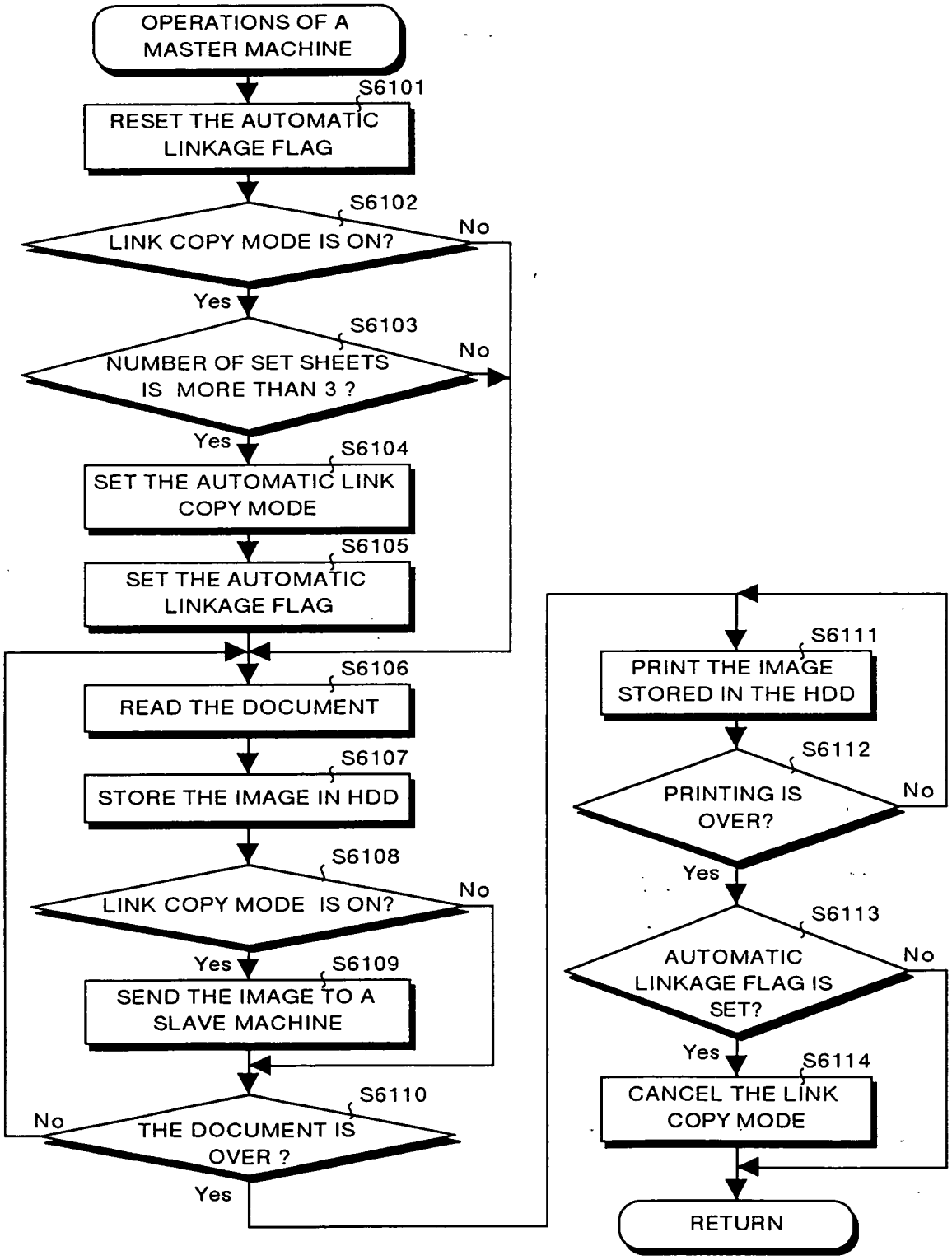

OPERATIONS OF A MASTER MACHINE
S6101
RESET THE AUTOMATIC LINKAGE FLAG
S6102
LINK COPY MODE IS ON?
No
Yes
S6103
NUMBER OF SET SHEETS IS MORE THAN 3 ?
No
Yes
S6104
SET THE AUTOMATIC LINK COPY MODE
S6105
SET THE AUTOMATIC LINKAGE FLAG
S6106
READ THE DOCUMENT
S6107
STORE THE IMAGE IN HDD
S6108
LINK COPY MODE IS ON?
No
Yes
S6109
SEND THE IMAGE TO A SLAVE MACHINE
S6110
No
THE DOCUMENT IS OVER ?
Yes
S6111
PRINT THE IMAGE STORED IN THE HDD
S6112
PRINTING IS OVER?
No
Yes
S6113
AUTOMATIC LINKAGE FLAG IS SET?
No
Yes
S6114
CANCEL THE LINK COPY MODE
RETURN

FIG.62

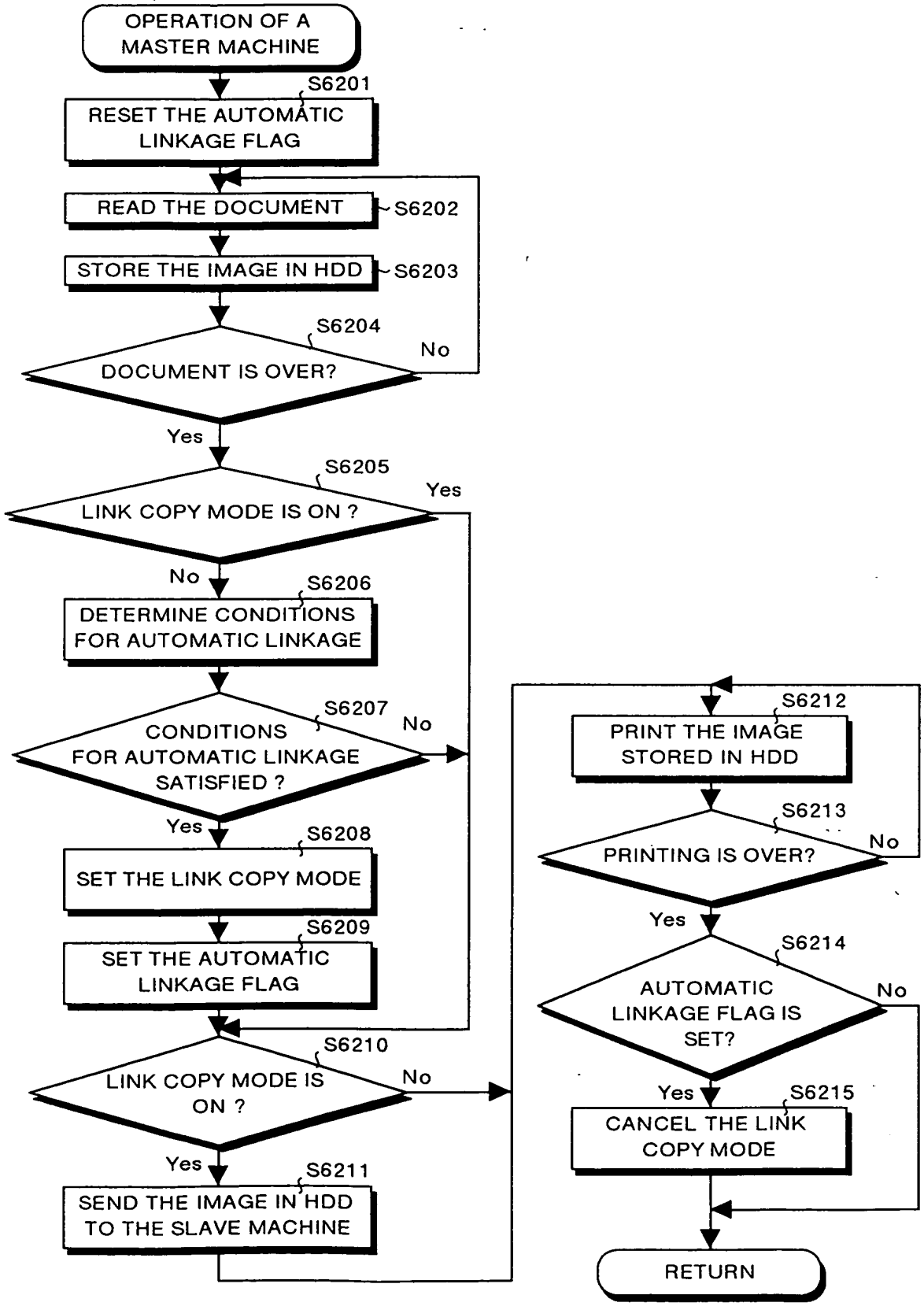

OPERATION OF A MASTER MACHINE
S6201
RESET THE AUTOMATIC LINKAGE FLAG
READ THE DOCUMENT
S6202
STORE THE IMAGE IN HDD
S6203
S6204
DOCUMENT IS OVER?
No
Yes
S6205
LINK COPY MODE IS ON ?
Yes
No
S6206
DETERMINE CONDITIONS FOR AUTOMATIC LINKAGE
S6207
CONDITIONS FOR AUTOMATIC LINKAGE SATISFIED ?
No
Yes
S6208
SET THE LINK COPY MODE
S6209
SET THE AUTOMATIC LINKAGE FLAG
S6210
LINK COPY MODE IS ON ?
No
Yes
S6211
SEND THE IMAGE IN HDD TO THE SLAVE MACHINE
S6212
PRINT THE IMAGE STORED IN HDD
S6213
PRINTING IS OVER?
No
Yes
S6214
AUTOMATIC LINKAGE FLAG IS SET?
No
Yes
S6215
CANCEL THE LINK COPY MODE
RETURN

FIG.63

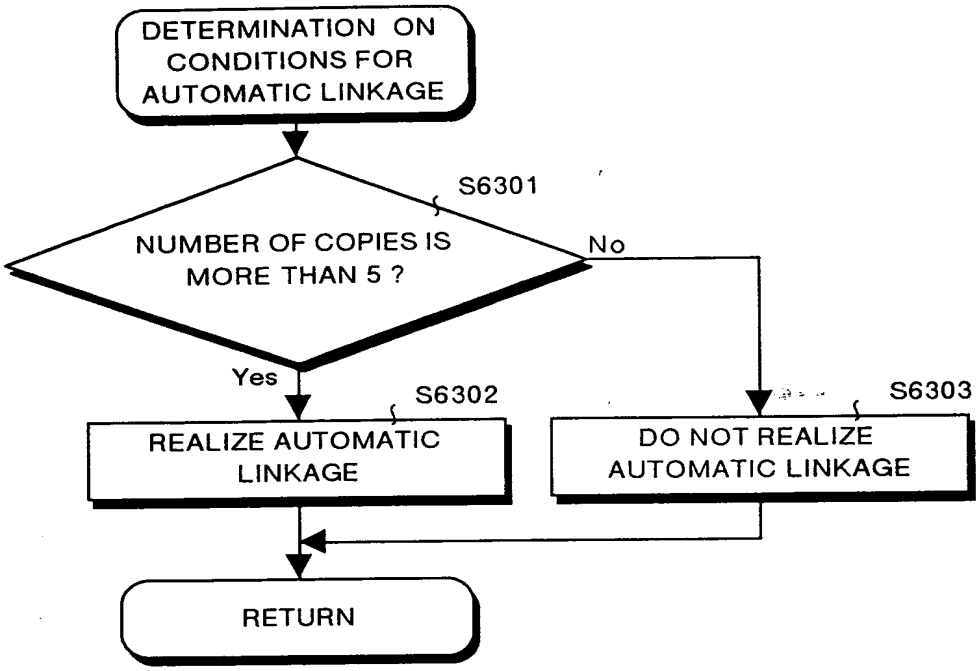

DETERMINATION ON CONDITIONS FOR AUTOMATIC LINKAGE
S6301
NUMBER OF COPIES IS MORE THAN 5 ?
No
Yes
S6302
REALIZE AUTOMATIC LINKAGE
S6303
DO NOT REALIZE AUTOMATIC LINKAGE
RETURN

FIG.64

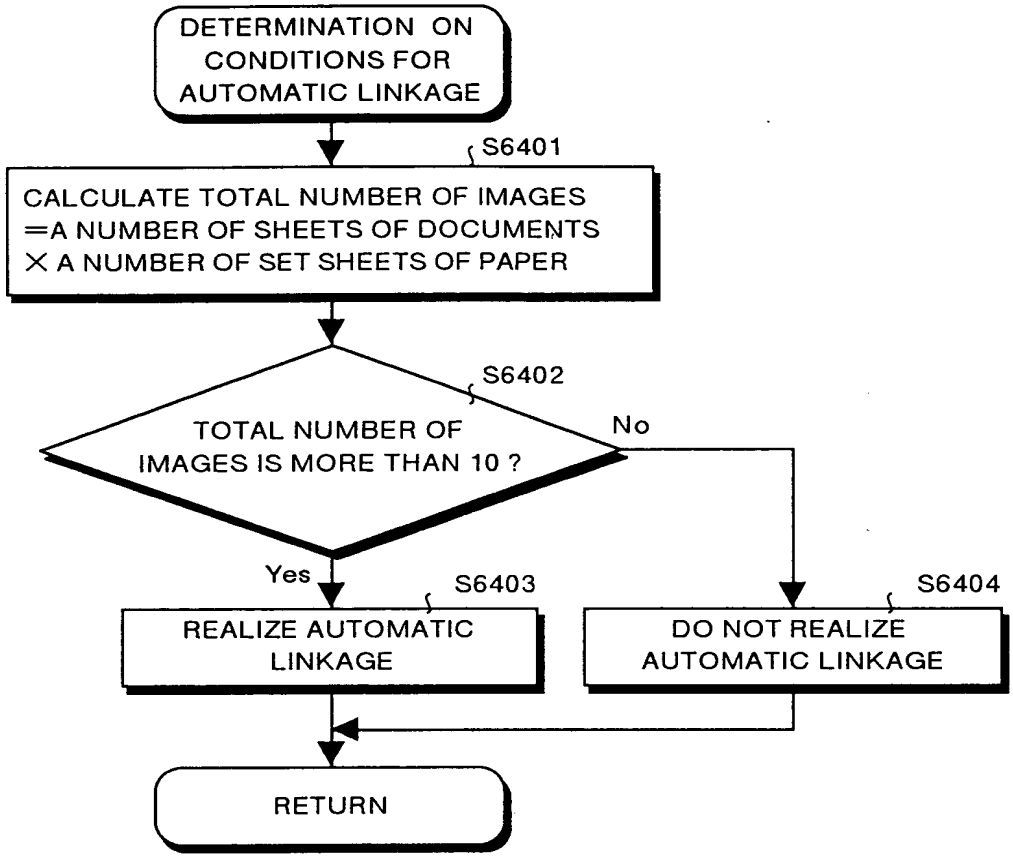

DETERMINATION ON CONDITIONS FOR AUTOMATIC LINKAGE
S6401
CALCULATE TOTAL NUMBER OF IMAGES =A NUMBER OF SHEETS OF DOCUMENTS × A NUMBER OF SET SHEETS OF PAPER
S6402
TOTAL NUMBER OF IMAGES IS MORE THAN 10 ?
No
Yes
S6403
REALIZE AUTOMATIC LINKAGE
S6404
DO NOT REALIZE AUTOMATIC LINKAGE
RETURN

FIG.65

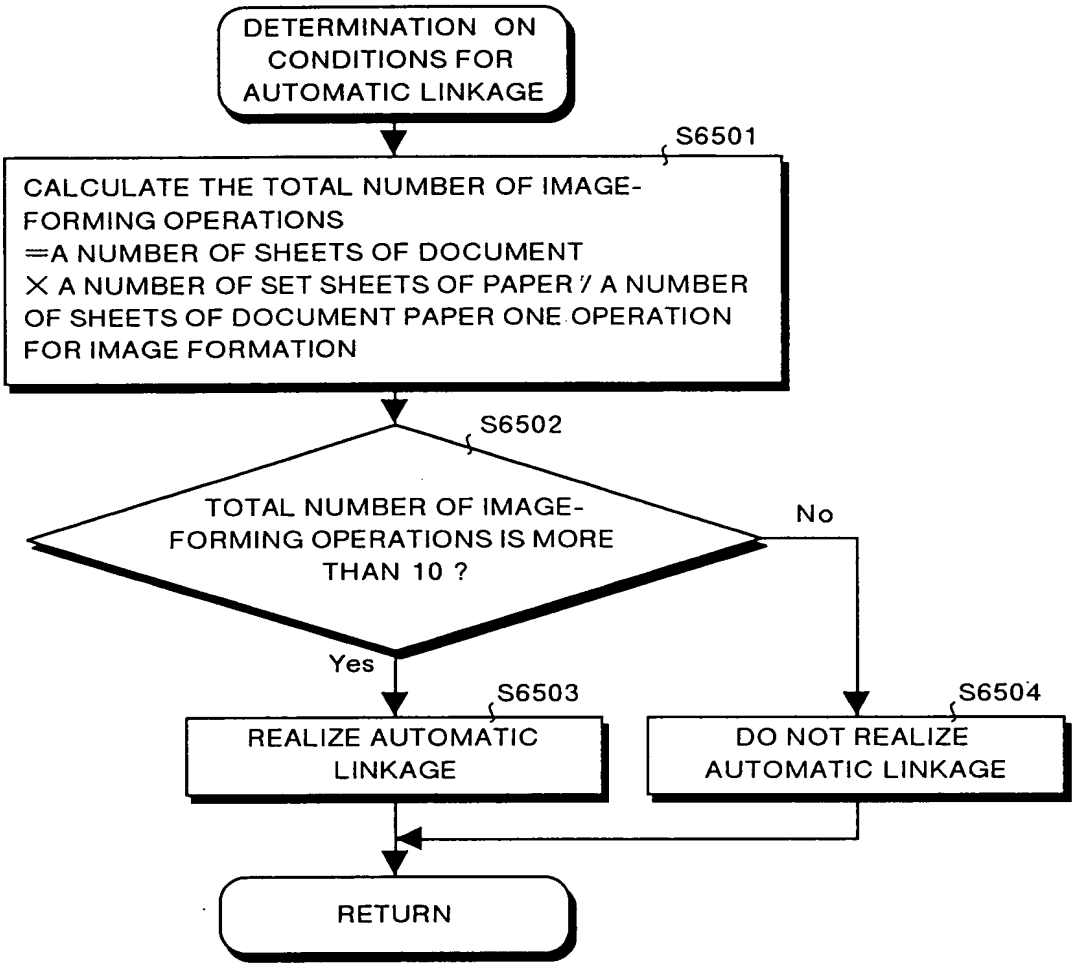

DETERMINATION ON CONDITIONS FOR AUTOMATIC LINKAGE
S6501
CALCULATE THE TOTAL NUMBER OF IMAGE-FORMING OPERATIONS
=A NUMBER OF SHEETS OF DOCUMENT
× A NUMBER OF SET SHEETS OF PAPER / A NUMBER OF SHEETS OF DOCUMENT PAPER ONE OPERATION FOR IMAGE FORMATION
S6502
TOTAL NUMBER OF IMAGE-FORMING OPERATIONS IS MORE THAN 10 ?
No
Yes
S6503
REALIZE AUTOMATIC LINKAGE
S6504
DO NOT REALIZE AUTOMATIC LINKAGE
RETURN

FIG.66

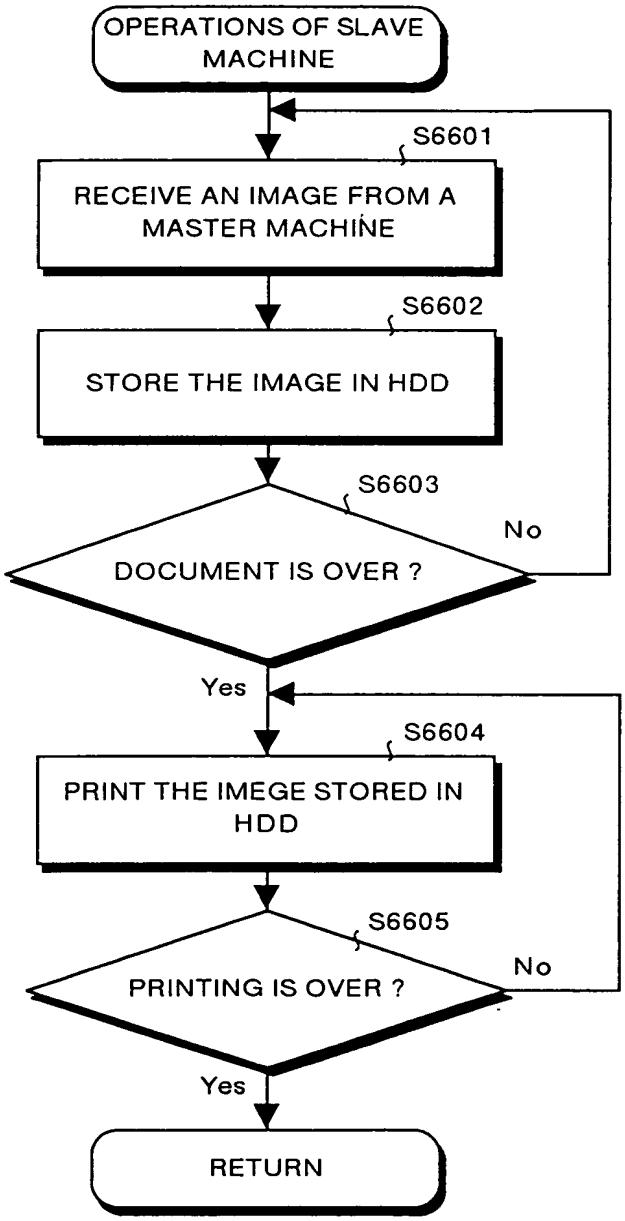

OPERATIONS OF SLAVE MACHINE
S6601
RECEIVE AN IMAGE FROM A MASTER MACHINE
S6602
STORE THE IMAGE IN HDD
S6603
DOCUMENT IS OVER ?
No
Yes
S6604
PRINT THE IMEGE STORED IN HDD
S6605
PRINTING IS OVER ?
No
Yes
RETURN

FIG.67

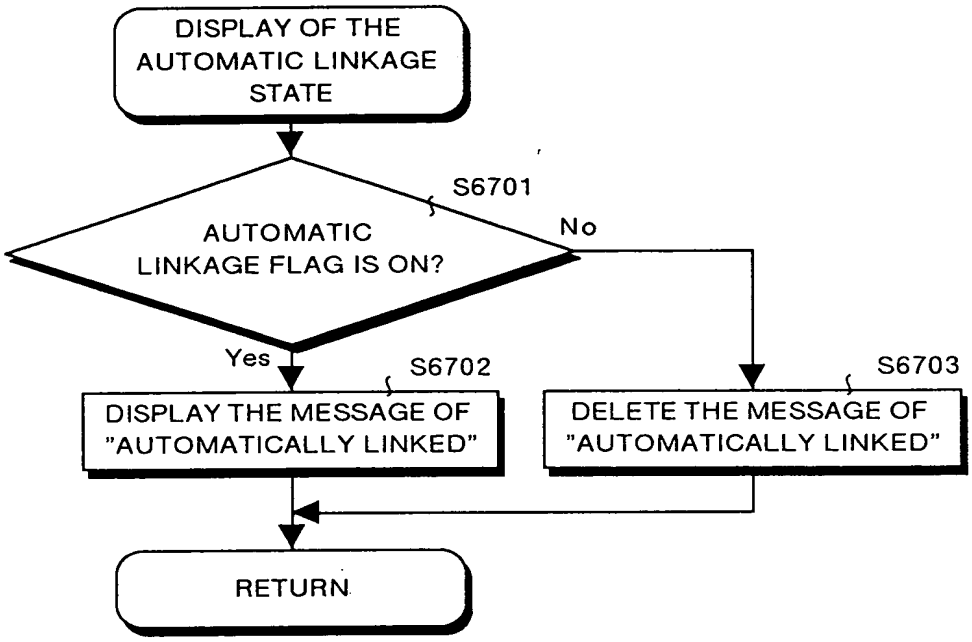

DISPLAY OF THE AUTOMATIC LINKAGE STATE
S6701
AUTOMATIC LINKAGE FLAG IS ON?
No
Yes
S6702
DISPLAY THE MESSAGE OF "AUTOMATICALLY LINKED"
S6703
DELETE THE MESSAGE OF "AUTOMATICALLY LINKED"
RETURN

FIG.68

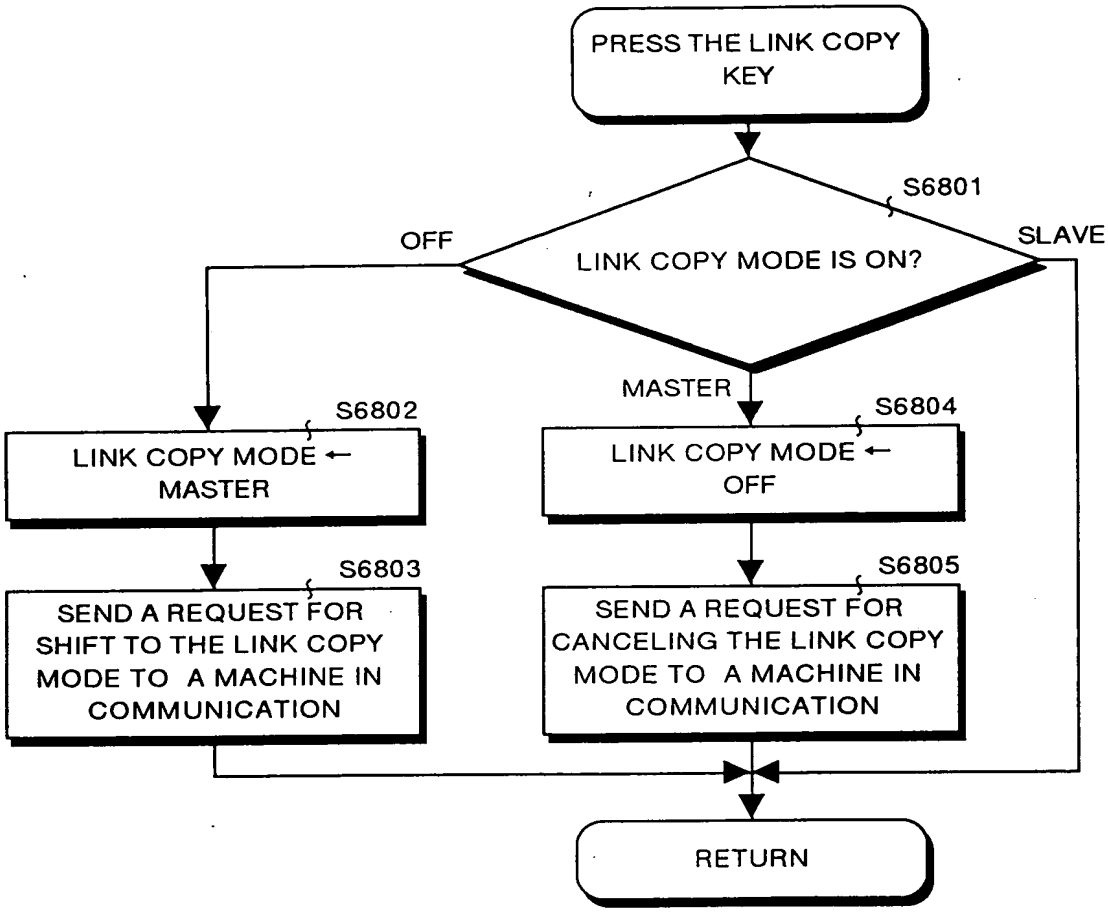

PRESS THE LINK COPY KEY
S6801
LINK COPY MODE IS ON?
OFF
SLAVE
MASTER
S6802
LINK COPY MODE ← MASTER
S6803
SEND A REQUEST FOR SHIFT TO THE LINK COPY MODE TO A MACHINE IN COMMUNICATION
S6804
LINK COPY MODE ← OFF
S6805
SEND A REQUEST FOR CANCELING THE LINK COPY MODE TO A MACHINE IN COMMUNICATION
RETURN

FIG.69

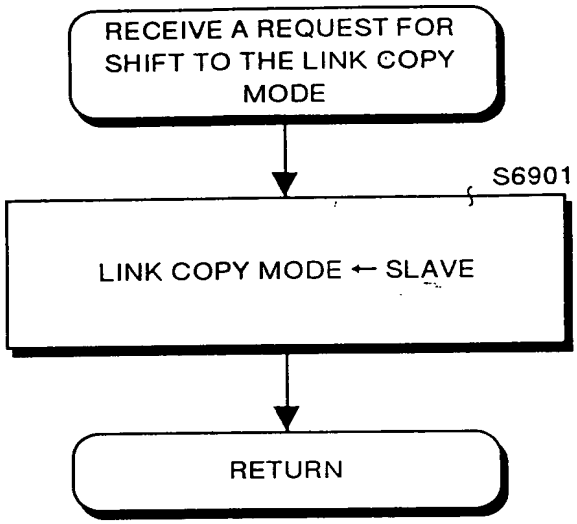

RECEIVE A REQUEST FOR SHIFT TO THE LINK COPY MODE
S6901
LINK COPY MODE ← SLAVE
RETURN

FIG.70

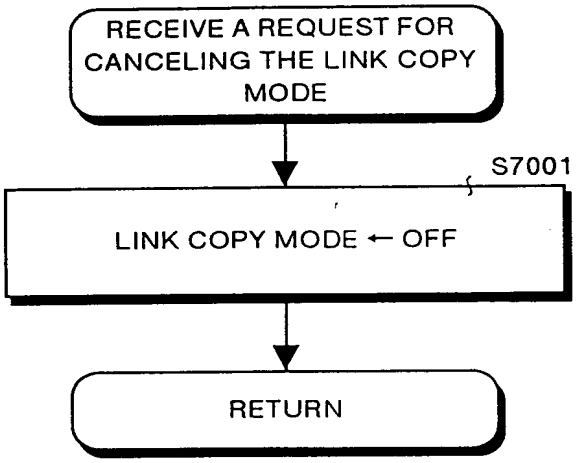

RECEIVE A REQUEST FOR CANCELING THE LINK COPY MODE
S7001
LINK COPY MODE ← OFF
RETURN

FIG.71

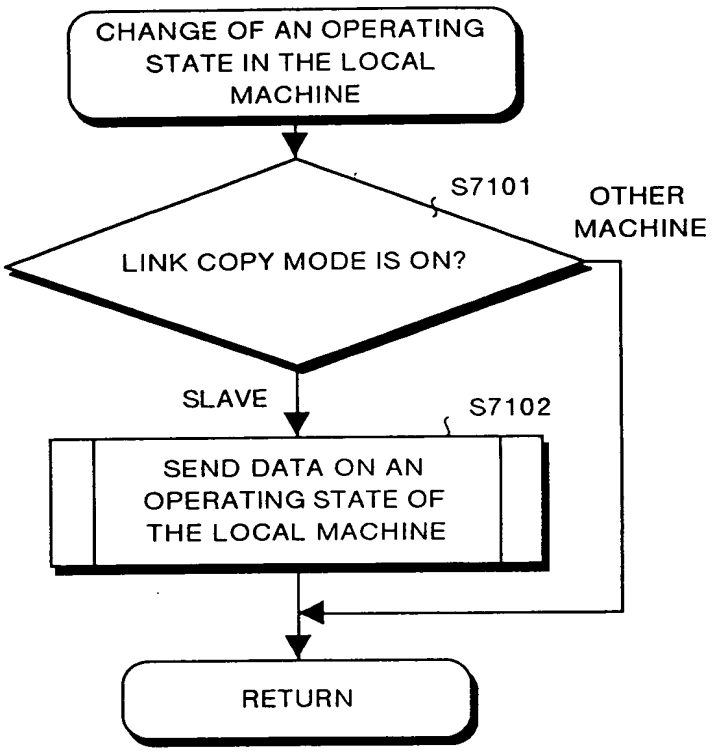

CHANGE OF AN OPERATING STATE IN THE LOCAL MACHINE
S7101
LINK COPY MODE IS ON?
OTHER MACHINE
SLAVE
S7102
SEND DATA ON AN OPERATING STATE OF THE LOCAL MACHINE
RETURN

FIG.72

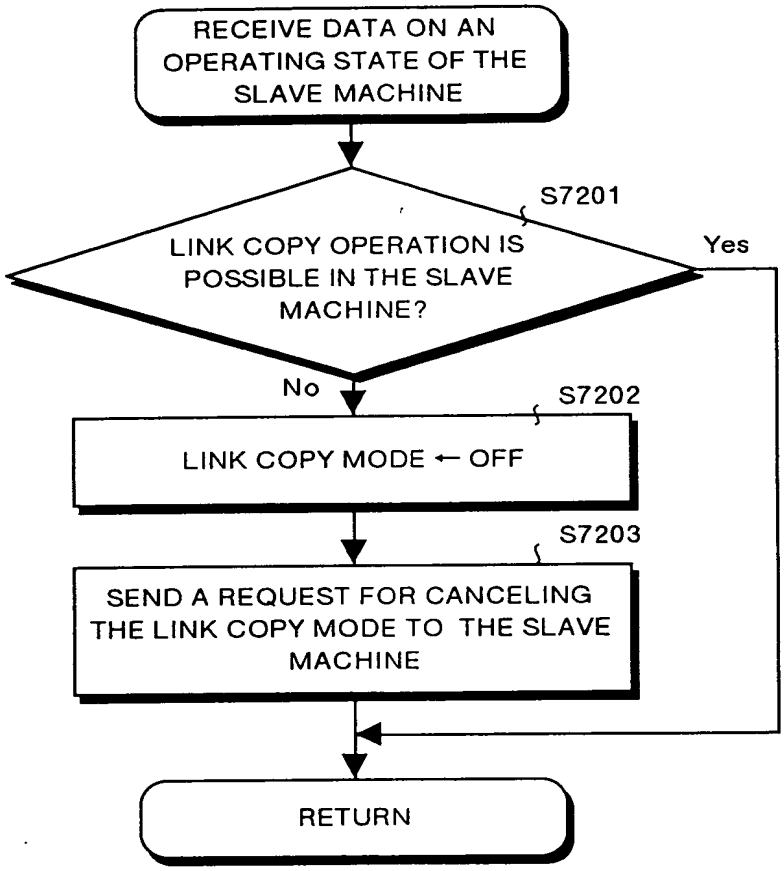

RECEIVE DATA ON AN OPERATING STATE OF THE SLAVE MACHINE
S7201
LINK COPY OPERATION IS POSSIBLE IN THE SLAVE MACHINE?
Yes
No
S7202
LINK COPY MODE ← OFF
S7203
SEND A REQUEST FOR CANCELING THE LINK COPY MODE TO THE SLAVE MACHINE
RETURN

FIG.73

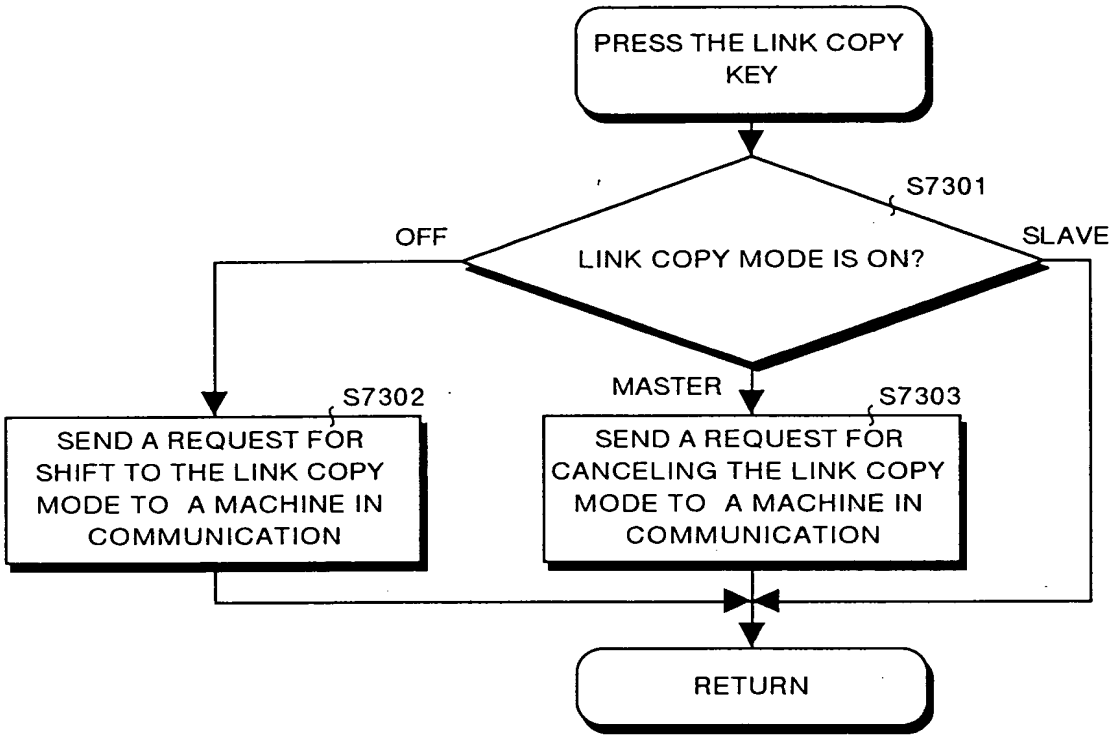

PRESS THE LINK COPY KEY
S7301
LINK COPY MODE IS ON?
OFF
SLAVE
MASTER
S7302
SEND A REQUEST FOR SHIFT TO THE LINK COPY MODE TO A MACHINE IN COMMUNICATION
S7303
SEND A REQUEST FOR CANCELING THE LINK COPY MODE TO A MACHINE IN COMMUNICATION
RETURN

FIG.74

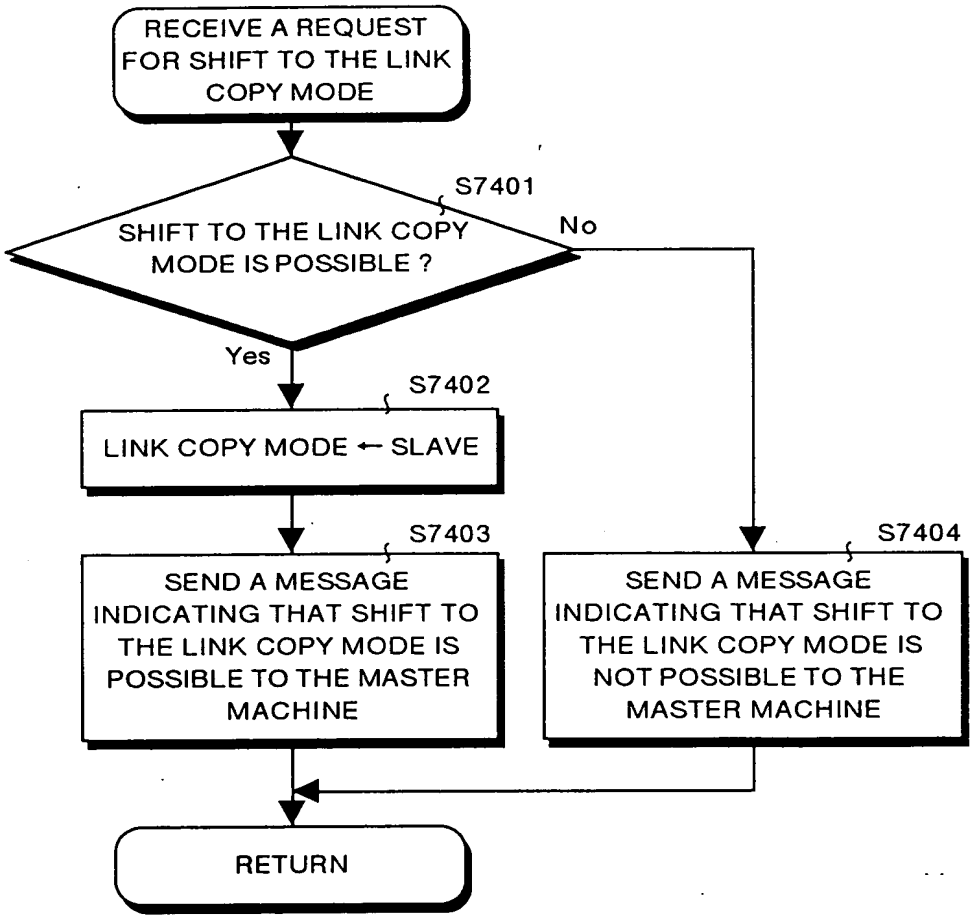

RECEIVE A REQUEST FOR SHIFT TO THE LINK COPY MODE
S7401
SHIFT TO THE LINK COPY MODE IS POSSIBLE ?
No
Yes
S7402
LINK COPY MODE ← SLAVE
S7403
SEND A MESSAGE INDICATING THAT SHIFT TO THE LINK COPY MODE IS POSSIBLE TO THE MASTER MACHINE
S7404
SEND A MESSAGE INDICATING THAT SHIFT TO THE LINK COPY MODE IS NOT POSSIBLE TO THE MASTER MACHINE
RETURN

FIG.75

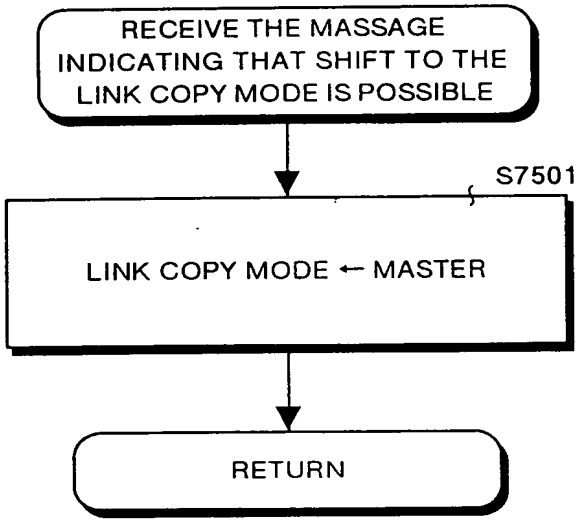
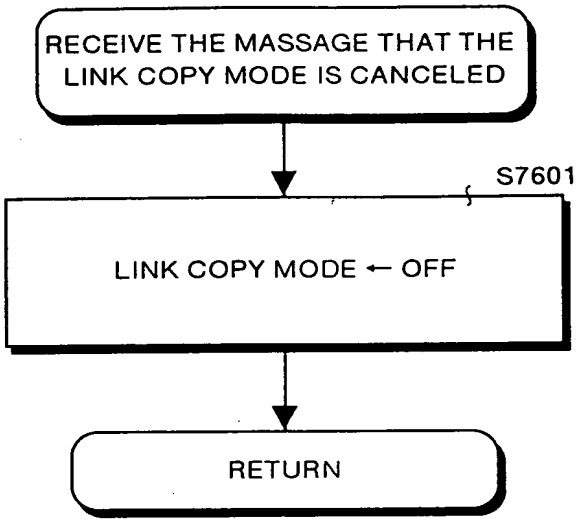

RECEIVE THE MASSAGE INDICATING THAT SHIFT TO THE LINK COPY MODE IS POSSIBLE
S7501
LINK COPY MODE ← MASTER
RETURN

FIG.76


RECEIVE THE MASSAGE THAT THE LINK COPY MODE IS CANCELED
S7601
LINK COPY MODE ← OFF
RETURN